

### AKTUALNI STANDARDI - VARJENJE

| <p style="text-align: center;"><b>Zahteve glede kakovosti za talilno varjenje</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">                 EN ISO 3834-1:2021; EN ISO 3834-2:2021<br/>                 EN ISO 3834-3:2021; EN ISO 3834-4:2021<br/>                 EN ISO 3834-5:2021; CEN ISO/TR 3834-6:2007             </div>  | <p style="text-align: center;"><b>Neporušitvene preiskave</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Kvalifikacija osebja</td><td>EN ISO 9712:2012</td></tr> <tr><td>Pravila za NDT</td><td>EN ISO 17635:2016</td></tr> <tr><td>Vizualna preiskava</td><td>EN ISO 17637:2016</td></tr> <tr><td>Radiografske preiskave</td><td>EN ISO 17636-1:2013, -2:2013</td></tr> <tr><td>Ultrasvočno preskušanje</td><td>EN ISO 17640:2018</td></tr> <tr><td>Preskušanje s penetranti</td><td>EN ISO 3452-1:2013, -2:2021, -5:2009, -6:2008</td></tr> <tr><td>Preskušanje z magnetnimi delci</td><td>EN ISO 17638:2016</td></tr> <tr><td>Preiskave z metodo vrtničnih tokov</td><td>EN ISO 17643:2015</td></tr> <tr><td>Preskušanje trdote</td><td>EN ISO 9015-1:2011, -2:2016</td></tr> <tr><td>Ultrazvok - TOFD</td><td>EN ISO 10863:2020;</td></tr> <tr><td>Ultrazvok - PA</td><td>EN ISO 13588:2019, EN ISO 23243:2021</td></tr> </table> | Kvalifikacija osebja                       | EN ISO 9712:2012   | Pravila za NDT  | EN ISO 17635:2016            | Vizualna preiskava  | EN ISO 17637:2016               | Radiografske preiskave                   | EN ISO 17636-1:2013, -2:2013 | Ultrasvočno preskušanje                       | EN ISO 17640:2018                      | Preskušanje s penetranti         | EN ISO 3452-1:2013, -2:2021, -5:2009, -6:2008 | Preskušanje z magnetnimi delci                 | EN ISO 17638:2016                      | Preiskave z metodo vrtničnih tokov  | EN ISO 17643:2015              | Preskušanje trdote           | EN ISO 9015-1:2011, -2:2016                | Ultrazvok - TOFD   | EN ISO 10863:2020;                | Ultrazvok - PA  | EN ISO 13588:2019, EN ISO 23243:2021  | <p style="text-align: center;"><b>Stopnje sprejemljivosti (NDT)</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #00FFC0;">Jeklo</th> <th style="background-color: #00FFC0;">Aluminij</th> </tr> </thead> <tbody> <tr> <td>VT EN ISO 5817:2014</td> <td>EN ISO 10042:2018</td> </tr> <tr> <td>RT EN ISO 10675-1:2016</td> <td>EN ISO 10675-2:2017</td> </tr> <tr> <td>UT EN ISO 11666:2018, EN ISO 23279:2017, EN ISO 22825:2017, EN ISO 15626:2018;</td> <td></td> </tr> <tr> <td>PT EN ISO 23277:2015</td> <td></td> </tr> <tr> <td>MT EN ISO 23278:2015</td> <td></td> </tr> <tr> <td>HT EN ISO 18265:2014</td> <td></td> </tr> </tbody> </table> | Jeklo    | Aluminij                                       | VT EN ISO 5817:2014                 | EN ISO 10042:2018  | RT EN ISO 10675-1:2016 | EN ISO 10675-2:2017 | UT EN ISO 11666:2018, EN ISO 23279:2017, EN ISO 22825:2017, EN ISO 15626:2018;  |                                 | PT EN ISO 23277:2015  |                             | MT EN ISO 23278:2015                  |  | HT EN ISO 18265:2014     |                                 | <p style="text-align: center;"><b>Izrazi in definicije</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Prikazovanje s simboli</td><td>EN ISO 2553:2019</td></tr> <tr><td>Načini varjenja</td><td>EN ISO 4063:2021</td></tr> <tr><td>Izrazi in definicije</td><td>ISO 857-2:2005<br/>CEN/TR 14599:2005,<br/>ISO/TR 25901:2016</td></tr> <tr><td>Večjezični izrazi varjenja</td><td>EN 1792:2003</td></tr> <tr><td>Večjezične oznake z ilustracijami</td><td>EN ISO 17659:2004</td></tr> <tr><td>Položaji pri varjenju</td><td>EN ISO 6947:2019<br/>(CEN/TR 14633:2003)</td></tr> <tr><td>Tolerance pri varjenju</td><td>EN ISO 13920:1996</td></tr> </table> | Prikazovanje s simboli | EN ISO 2553:2019                    | Načini varjenja             | EN ISO 4063:2021                       | Izrazi in definicije                       | ISO 857-2:2005<br>CEN/TR 14599:2005,<br>ISO/TR 25901:2016 | Večjezični izrazi varjenja             | EN 1792:2003            | Večjezične oznake z ilustracijami           | EN ISO 17659:2004                            | Položaji pri varjenju               | EN ISO 6947:2019<br>(CEN/TR 14633:2003)  | Tolerance pri varjenju               | EN ISO 13920:1996                         |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|--|---|--|--|---|------------------------------|---|---------------------------------|--|------------------------------|---|--|----------------------------------|---|--|--|-------------------------------------|--------------------------------|------------------------------|--|--|-----------------------------------|---|---|--|----------|--|-------------------------------------|--|------------------------|---------------------|---|---------------------------------|-----------------------|-----------------------------|---------------------------------------|--|--------------------------|---------------------------------|--|------------------------|-------------------------------------|-----------------------------|--|--|---|--|-------------------------|---|--|-------------------------------------|--|--------------------------------------|---|--|-------------------|--|-------------------|--------------------|----------------------------------|---------------|-------------------------|-----------------|--------------------|-------------------|-------------------------|---|------------------|---|----------------------|-------------------|--------------------------------------|---------------|----------------------------------|------------------|--|------------------------------|--------------------|-------------------------------|--------------------|------------------------------|--------------------|--------------------------|---------------|--------------------------------|--------------------------|---------------------------|-------------------------|---------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|-------------------------------|---------------------|--|---------------------|-------------------------------------|----------------------|---------------------------|-------------------|--------------------------------|----------------|---|----------------|---|-------------------|--|--|--|--|
| Kvalifikacija osebja   | EN ISO 9712:2012  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Pravila za NDT   | EN ISO 17635:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Vizualna preiskava   | EN ISO 17637:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Radiografske preiskave   | EN ISO 17636-1:2013, -2:2013  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Ultrasvočno preskušanje  | EN ISO 17640:2018   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskušanje s penetranti   | EN ISO 3452-1:2013, -2:2021, -5:2009, -6:2008   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskušanje z magnetnimi delci   | EN ISO 17638:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preiskave z metodo vrtničnih tokov   | EN ISO 17643:2015   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskušanje trdote   | EN ISO 9015-1:2011, -2:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Ultrazvok - TOFD   | EN ISO 10863:2020;  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Ultrazvok - PA   | EN ISO 13588:2019, EN ISO 23243:2021  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Jeklo  | Aluminij  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| VT EN ISO 5817:2014  | EN ISO 10042:2018   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| RT EN ISO 10675-1:2016   | EN ISO 10675-2:2017   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| UT EN ISO 11666:2018, EN ISO 23279:2017, EN ISO 22825:2017, EN ISO 15626:2018;   |   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| PT EN ISO 23277:2015   |   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| MT EN ISO 23278:2015   |   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| HT EN ISO 18265:2014   |   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Prikazovanje s simboli   | EN ISO 2553:2019  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Načini varjenja  | EN ISO 4063:2021  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Izrazi in definicije   | ISO 857-2:2005<br>CEN/TR 14599:2005,<br>ISO/TR 25901:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Večjezični izrazi varjenja   | EN 1792:2003  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Večjezične oznake z ilustracijami  | EN ISO 17659:2004   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Položaji pri varjenju  | EN ISO 6947:2019<br>(CEN/TR 14633:2003)   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Tolerance pri varjenju   | EN ISO 13920:1996   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| <p style="text-align: center;"><b>Obločno varjenje</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #FFFF00;">Jeklo</th> <th style="background-color: #FFFF00;">Aluminij</th> </tr> </thead> <tbody> <tr><td>Skupine materialov</td><td>CEN ISO/TR 15608:2017, 20172:2009;<br/>CEN ISO/TR 20173:2018, 20174:2020</td></tr> <tr><td>Priporočila za varjenje</td><td>EN 1011-1:2009 (ISO/TR 17671-1:2002)</td></tr> <tr><td></td><td>EN 1011-2:2001/A1:2003<br/>EN 1011-3:2018</td></tr> <tr><td></td><td>EN 1011-4:2000/A1:2003</td></tr> <tr><td>Meritve temperature</td><td>EN ISO 13916:2017</td></tr> <tr><td>Usposobljenost varilcev</td><td>EN ISO 9606-1:2017; EN ISO 9606-2:2004</td></tr> <tr><td>Usposobljenost operaterjev</td><td>EN ISO 14732:2013</td></tr> <tr><td>Koordinacija varjenja</td><td>EN ISO 14731:2019</td></tr> <tr><td>Specifikacija varilnega postopka</td><td>EN ISO 15609-1:2019, -2:2019</td></tr> <tr><td>Kvalifikacija varilnega postopka</td><td>EN ISO 15607:2019, 15610:2003, 15611:2003,<br/>EN ISO 15612:2018, 15613:2004</td></tr> <tr><td></td><td>EN ISO 15614-1:2017<br/>+ /A1:2020</td></tr> <tr><td></td><td>EN ISO 15614-2:2005/AC:2009<br/>-4:2005/AC:2007</td></tr> <tr><td>Umerjanje, potrjevanje, preverjanje</td><td>EN ISO 17662:2016, ISO/TR 18491:2015</td></tr> <tr><td>Toplotna obdelava</td><td>EN ISO 17663:2009</td></tr> </tbody> </table> | Jeklo   | Aluminij                                   | Skupine materialov   | CEN ISO/TR 15608:2017, 20172:2009;<br>CEN ISO/TR 20173:2018, 20174:2020           | Priporočila za varjenje      | EN 1011-1:2009 (ISO/TR 17671-1:2002)  |                                 | EN 1011-2:2001/A1:2003<br>EN 1011-3:2018 |                              | EN 1011-4:2000/A1:2003                        | Meritve temperature                    | EN ISO 13916:2017                | Usposobljenost varilcev                       | EN ISO 9606-1:2017; EN ISO 9606-2:2004         | Usposobljenost operaterjev             | EN ISO 14732:2013                   | Koordinacija varjenja          | EN ISO 14731:2019            | Specifikacija varilnega postopka           | EN ISO 15609-1:2019, -2:2019   | Kvalifikacija varilnega postopka  | EN ISO 15607:2019, 15610:2003, 15611:2003,<br>EN ISO 15612:2018, 15613:2004 |   | EN ISO 15614-1:2017<br>+ /A1:2020  |          | EN ISO 15614-2:2005/AC:2009<br>-4:2005/AC:2007 | Umerjanje, potrjevanje, preverjanje | EN ISO 17662:2016, ISO/TR 18491:2015   | Toplotna obdelava      | EN ISO 17663:2009   | <p style="text-align: center;"><b>Porušne preiskave</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Prečni natezni preskus</td><td>EN ISO 4113:2020</td></tr> <tr><td>Vzdolžni natezni preskus</td><td>EN ISO 5178:2019</td></tr> <tr><td>Natezni preskus (križni)</td><td>EN ISO 9018:2016</td></tr> <tr><td>Upogibni preskus</td><td>EN ISO 5173:2021</td></tr> <tr><td>Prelomni preskus</td><td>SIST EN ISO 9017:2018</td></tr> <tr><td>Udarni preskus</td><td>EN ISO 148-1:2016,<br/>EN ISO 9016:2012</td></tr> <tr><td>Preskušanje trdote</td><td>EN ISO 9015-1:2011, -2:2016</td></tr> <tr><td>Makroskopska in mikroskopska preiskava</td><td>EN ISO 17639:2020</td></tr> <tr><td>Jedkala za makro- in mikroskopsko preiskavo</td><td>CEN ISO/TR 16060:2014;<br/>DIN SPEC 8548:2014</td></tr> <tr><td>Preskusi na pokanje zvarov v vročem</td><td>EN ISO 17641-1:2004,<br/>-2:2015, -3:2015</td></tr> <tr><td>Preskusi na pokanje zvarov v hladnem</td><td>EN ISO 17642-1:2004,<br/>-2: 2005, -3:2005</td></tr> <tr><td>Določanje feritne vsebine – nerjavna jekla</td><td>EN ISO 8249:2018</td></tr> </table> | Prečni natezni preskus          | EN ISO 4113:2020      | Vzdolžni natezni preskus    | EN ISO 5178:2019                      | Natezni preskus (križni)               | EN ISO 9018:2016         | Upogibni preskus                | EN ISO 5173:2021   | Prelomni preskus       | SIST EN ISO 9017:2018               | Udarni preskus              | EN ISO 148-1:2016,<br>EN ISO 9016:2012 | Preskušanje trdote                         | EN ISO 9015-1:2011, -2:2016                               | Makroskopska in mikroskopska preiskava | EN ISO 17639:2020       | Jedkala za makro- in mikroskopsko preiskavo | CEN ISO/TR 16060:2014;<br>DIN SPEC 8548:2014 | Preskusi na pokanje zvarov v vročem | EN ISO 17641-1:2004,<br>-2:2015, -3:2015 | Preskusi na pokanje zvarov v hladnem | EN ISO 17642-1:2004,<br>-2: 2005, -3:2005 | Določanje feritne vsebine – nerjavna jekla | EN ISO 8249:2018  | <p style="text-align: center;"><b>Dodajni materiali za varjenje</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Splošni pogoji</td><td>EN 13479:2017</td></tr> <tr><td>Zahteve po kakovosti za izdelavo</td><td>EN 12074:2000</td></tr> <tr><td>Tehnični dobavni pogoji</td><td>EN ISO 544:2017</td></tr> <tr><td>Smernice za nabavo</td><td>EN ISO 14344:2010</td></tr> <tr><td>Preskušanje in kakovost</td><td>EN 14532-1, -2, -3:2004<br/>EN ISO 15792-1:2020,<br/>-2:2008, -3:2011</td></tr> <tr><td>Preskusne metode</td><td>EN ISO 15792-1:2020/<br/>-2: 2008, -3:2011,<br/>EN ISO 6847:2013,<br/>14372:2011, 8249:2018,<br/>EN ISO 3690:2018</td></tr> <tr><td>Volframove elektrode</td><td>EN ISO 6848:2015</td></tr> <tr><td>Dodajni materiali za trdo navarjanje</td><td>EN 14700:2014</td></tr> <tr><td>Dodajni materiali za lito železo</td><td>EN ISO 1071:2015</td></tr> </table> | Splošni pogoji    | EN 13479:2017      | Zahteve po kakovosti za izdelavo | EN 12074:2000 | Tehnični dobavni pogoji | EN ISO 544:2017 | Smernice za nabavo | EN ISO 14344:2010 | Preskušanje in kakovost | EN 14532-1, -2, -3:2004<br>EN ISO 15792-1:2020,<br>-2:2008, -3:2011 | Preskusne metode | EN ISO 15792-1:2020/<br>-2: 2008, -3:2011,<br>EN ISO 6847:2013,<br>14372:2011, 8249:2018,<br>EN ISO 3690:2018 | Volframove elektrode | EN ISO 6848:2015  | Dodajni materiali za trdo navarjanje | EN 14700:2014 | Dodajni materiali za lito železo | EN ISO 1071:2015 | <p style="text-align: center;"><b>Kvalifikacije, certificiranje, priporočila</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Certificiranje varilca-baker</td><td>EN ISO 9606-3:1999</td></tr> <tr><td>Certificiranje varilca-nikelj</td><td>EN ISO 9606-4:1999</td></tr> <tr><td>Certificiranje varilca-titan</td><td>EN ISO 9606-5:2000</td></tr> <tr><td>Certif. varilca - litine</td><td>EN 287-6:2018</td></tr> <tr><td>Nepopolnosti-hibridno varjenje</td><td>EN ISO 12932:2013</td></tr> <tr><td>Varilni postopek – nikelj</td><td>EN ISO 15614-1:17/A1:20</td></tr> <tr><td>Varilni postopek - litine</td><td>EN ISO 15614-3:2008</td></tr> <tr><td>Varilni postopek - titan</td><td>EN ISO 15614-5:2004</td></tr> <tr><td>Varilni postopek - baker</td><td>EN ISO 15614-6:2006</td></tr> <tr><td>Varilni postopek - navarjanje</td><td>EN ISO 15614-7:2019</td></tr> <tr><td>Varilni postopek - cev na cevne plošče</td><td>EN ISO 15614-8:2016</td></tr> <tr><td>Varilni postopek - hibridni procesi</td><td>EN ISO 15614-14:2013</td></tr> <tr><td>Varilni postopek – litine</td><td>EN ISO 11970:2016</td></tr> <tr><td>Priporočila za varjenje litine</td><td>EN 1011-8:2018</td></tr> <tr><td>Priporočila za varjenje platiranega jekla</td><td>EN 1011-5:2003</td></tr> <tr><td>Metode ocenjevanja nepopolnosti v strukturi kovin</td><td>CEN/TR 15235:2005</td></tr> </table> | Certificiranje varilca-baker | EN ISO 9606-3:1999 | Certificiranje varilca-nikelj | EN ISO 9606-4:1999 | Certificiranje varilca-titan | EN ISO 9606-5:2000 | Certif. varilca - litine | EN 287-6:2018 | Nepopolnosti-hibridno varjenje | EN ISO 12932:2013        | Varilni postopek – nikelj | EN ISO 15614-1:17/A1:20 | Varilni postopek - litine | EN ISO 15614-3:2008 | Varilni postopek - titan | EN ISO 15614-5:2004 | Varilni postopek - baker | EN ISO 15614-6:2006 | Varilni postopek - navarjanje | EN ISO 15614-7:2019 | Varilni postopek - cev na cevne plošče | EN ISO 15614-8:2016 | Varilni postopek - hibridni procesi | EN ISO 15614-14:2013 | Varilni postopek – litine | EN ISO 11970:2016 | Priporočila za varjenje litine | EN 1011-8:2018 | Priporočila za varjenje platiranega jekla | EN 1011-5:2003 | Metode ocenjevanja nepopolnosti v strukturi kovin | CEN/TR 15235:2005 |  |  |  |  |
| Jeklo  | Aluminij  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Skupine materialov   | CEN ISO/TR 15608:2017, 20172:2009;<br>CEN ISO/TR 20173:2018, 20174:2020   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Priporočila za varjenje  | EN 1011-1:2009 (ISO/TR 17671-1:2002)  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | EN 1011-2:2001/A1:2003<br>EN 1011-3:2018  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | EN 1011-4:2000/A1:2003  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Meritve temperature  | EN ISO 13916:2017   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Usposobljenost varilcev  | EN ISO 9606-1:2017; EN ISO 9606-2:2004  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Usposobljenost operaterjev   | EN ISO 14732:2013   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Koordinacija varjenja  | EN ISO 14731:2019   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Specifikacija varilnega postopka   | EN ISO 15609-1:2019, -2:2019  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Kvalifikacija varilnega postopka   | EN ISO 15607:2019, 15610:2003, 15611:2003,<br>EN ISO 15612:2018, 15613:2004   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | EN ISO 15614-1:2017<br>+ /A1:2020   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | EN ISO 15614-2:2005/AC:2009<br>-4:2005/AC:2007  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Umerjanje, potrjevanje, preverjanje  | EN ISO 17662:2016, ISO/TR 18491:2015  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Toplotna obdelava  | EN ISO 17663:2009   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Prečni natezni preskus   | EN ISO 4113:2020  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Vzdolžni natezni preskus   | EN ISO 5178:2019  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Natezni preskus (križni)   | EN ISO 9018:2016  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Upogibni preskus   | EN ISO 5173:2021  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Prelomni preskus   | SIST EN ISO 9017:2018   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Udarni preskus   | EN ISO 148-1:2016,<br>EN ISO 9016:2012  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskušanje trdote   | EN ISO 9015-1:2011, -2:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Makroskopska in mikroskopska preiskava   | EN ISO 17639:2020   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Jedkala za makro- in mikroskopsko preiskavo  | CEN ISO/TR 16060:2014;<br>DIN SPEC 8548:2014  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskusi na pokanje zvarov v vročem  | EN ISO 17641-1:2004,<br>-2:2015, -3:2015  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskusi na pokanje zvarov v hladnem   | EN ISO 17642-1:2004,<br>-2: 2005, -3:2005   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Določanje feritne vsebine – nerjavna jekla   | EN ISO 8249:2018  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Splošni pogoji   | EN 13479:2017   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Zahteve po kakovosti za izdelavo   | EN 12074:2000   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Tehnični dobavni pogoji  | EN ISO 544:2017   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Smernice za nabavo   | EN ISO 14344:2010   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskušanje in kakovost  | EN 14532-1, -2, -3:2004<br>EN ISO 15792-1:2020,<br>-2:2008, -3:2011   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Preskusne metode   | EN ISO 15792-1:2020/<br>-2: 2008, -3:2011,<br>EN ISO 6847:2013,<br>14372:2011, 8249:2018,<br>EN ISO 3690:2018   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Volframove elektrode   | EN ISO 6848:2015  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Dodajni materiali za trdo navarjanje   | EN 14700:2014   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Dodajni materiali za lito železo   | EN ISO 1071:2015  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Certificiranje varilca-baker   | EN ISO 9606-3:1999  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Certificiranje varilca-nikelj  | EN ISO 9606-4:1999  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Certificiranje varilca-titan   | EN ISO 9606-5:2000  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Certif. varilca - litine   | EN 287-6:2018   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Nepopolnosti-hibridno varjenje   | EN ISO 12932:2013   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek – nikelj  | EN ISO 15614-1:17/A1:20   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek - litine  | EN ISO 15614-3:2008   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek - titan   | EN ISO 15614-5:2004   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek - baker   | EN ISO 15614-6:2006   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek - navarjanje  | EN ISO 15614-7:2019   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek - cev na cevne plošče   | EN ISO 15614-8:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek - hibridni procesi  | EN ISO 15614-14:2013  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni postopek – litine  | EN ISO 11970:2016   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Priporočila za varjenje litine   | EN 1011-8:2018  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Priporočila za varjenje platiranega jekla  | EN 1011-5:2003  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Metode ocenjevanja nepopolnosti v strukturi kovin  | CEN/TR 15235:2005   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| <p style="text-align: center;"><b>Nepopolnosti, priprava zvarnih robov</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Stopnje sprejemljivost</td><td>EN ISO 5817:2014</td><td>EN ISO 10042:2018</td></tr> <tr><td></td><td>EN ISO 13919-1:2020</td><td>EN ISO 13919-2:2021</td></tr> <tr><td>Termično rezanje</td><td colspan="2">EN ISO 9013:2017</td></tr> <tr><td>Priporočila za pripravo zvarnih robov</td><td>EN ISO 9692-1:2013<br/>-2:1999, -4:2003</td><td>EN ISO 9692-3:2016</td></tr> <tr><td>Zasnova zvarnih spojev</td><td colspan="2">EN 1708-1:2010, EN 1708-2:2018, EN 1708-3:2012</td></tr> <tr><td>Razvrstitev nepopolnosti - Varjenje</td><td colspan="2">EN ISO 6520-1:2007, -2:2013</td></tr> <tr><td>Razvrstite nepopolnosti - Termično rezanje</td><td colspan="2">EN ISO 17658:2015</td></tr> <tr><td>Označevane nepopolnosti</td><td colspan="2">CEN ISO/TS 17845:2004</td></tr> <tr><td>Varivost</td><td colspan="2">ISO / TR 581: 2005</td></tr> </table>  | Stopnje sprejemljivost  | EN ISO 5817:2014                           | EN ISO 10042:2018  |   | EN ISO 13919-1:2020          | EN ISO 13919-2:2021   | Termično rezanje                | EN ISO 9013:2017                         |                              | Priporočila za pripravo zvarnih robov         | EN ISO 9692-1:2013<br>-2:1999, -4:2003 | EN ISO 9692-3:2016               | Zasnova zvarnih spojev                        | EN 1708-1:2010, EN 1708-2:2018, EN 1708-3:2012 |  | Razvrstitev nepopolnosti - Varjenje | EN ISO 6520-1:2007, -2:2013    |                              | Razvrstite nepopolnosti - Termično rezanje | EN ISO 17658:2015  |                                   | Označevane nepopolnosti   | CEN ISO/TS 17845:2004   |  | Varivost | ISO / TR 581: 2005                             |                                     | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Nelegirana in fino zrnata jekla</th> <th>Visokotrdnostna jekla</th> <th>Jekla odporna proti lezenju</th> <th>Nerjavna jekla</th> <th>Nikelj in nikljeve zlitine</th> <th>Baker in bakrove zlitine</th> <th>Aluminij in aluminijeve zlitine</th> <th>Titan in titanove zlitine</th> </tr> </thead> <tbody> <tr> <td>Elektrode</td> <td>EN ISO 2560:2020</td> <td>EN ISO 18275:2018</td> <td>EN ISO 3580:2017</td> <td>EN ISO 3581:2016</td> <td>EN ISO 14172:2015</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Žica (MIG, MAG)</td> <td>EN ISO 14341:2020</td> <td>EN ISO 16834:2012</td> <td>EN ISO 21952:2012</td> <td>EN ISO 14343:2017</td> <td>EN ISO 18274:2010</td> <td>EN ISO 24373:2018</td> <td>EN ISO 18273:2015</td> <td>EN ISO 24034:2020</td> </tr> <tr> <td>Palica/ žica (TIG)</td> <td>EN ISO 636:2017</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Žica (EPP)</td> <td>EN ISO 14171:2016</td> <td>EN ISO 26304:2018</td> <td>EN ISO 24598:2019</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Prašek (EPP)</td> <td colspan="8">EN ISO 14174:2019</td> </tr> <tr> <td>Strženska žica (MIG/MAG)</td> <td>EN ISO 17632:2015</td> <td>EN ISO 18276:2017</td> <td>EN ISO 17634:2015</td> <td>EN ISO 17633:2018</td> <td>ISO 12153:2012</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Palice Plamensko</td> <td>EN ISO 20378:2018</td> <td></td> <td>EN ISO 20378:2018</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Zaščitni plin</td> <td colspan="8">EN ISO 14175:2008; EN 1089-3:2011</td> </tr> </tbody> </table> |                        |                     |   | Nelegirana in fino zrnata jekla | Visokotrdnostna jekla | Jekla odporna proti lezenju | Nerjavna jekla                        | Nikelj in nikljeve zlitine             | Baker in bakrove zlitine | Aluminij in aluminijeve zlitine | Titan in titanove zlitine  | Elektrode              | EN ISO 2560:2020                    | EN ISO 18275:2018           | EN ISO 3580:2017                       | EN ISO 3581:2016                           | EN ISO 14172:2015   |  |                         |   | Žica (MIG, MAG)                              | EN ISO 14341:2020                   | EN ISO 16834:2012                        | EN ISO 21952:2012                    | EN ISO 14343:2017                         | EN ISO 18274:2010                          | EN ISO 24373:2018 | EN ISO 18273:2015  | EN ISO 24034:2020 | Palica/ žica (TIG) | EN ISO 636:2017                  |               |                         |                 |                    |                   |                         |   | Žica (EPP)       | EN ISO 14171:2016   | EN ISO 26304:2018    | EN ISO 24598:2019 |                                      |               |                                  |                  |  | Prašek (EPP)                 | EN ISO 14174:2019  |                               |                    |                              |                    |                          |               |                                | Strženska žica (MIG/MAG) | EN ISO 17632:2015         | EN ISO 18276:2017       | EN ISO 17634:2015         | EN ISO 17633:2018   | ISO 12153:2012           |                     |                          |                     | Palice Plamensko              | EN ISO 20378:2018   |  | EN ISO 20378:2018   |                                     |                      |                           |                   |                                | Zaščitni plin  | EN ISO 14175:2008; EN 1089-3:2011         |                |   |                   |  |  |  |  |
| Stopnje sprejemljivost   | EN ISO 5817:2014  | EN ISO 10042:2018                          |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | EN ISO 13919-1:2020   | EN ISO 13919-2:2021                        |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Termično rezanje   | EN ISO 9013:2017  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Priporočila za pripravo zvarnih robov  | EN ISO 9692-1:2013<br>-2:1999, -4:2003  | EN ISO 9692-3:2016                         |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Zasnova zvarnih spojev   | EN 1708-1:2010, EN 1708-2:2018, EN 1708-3:2012  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Razvrstitev nepopolnosti - Varjenje  | EN ISO 6520-1:2007, -2:2013   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Razvrstite nepopolnosti - Termično rezanje   | EN ISO 17658:2015   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Označevane nepopolnosti  | CEN ISO/TS 17845:2004   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varivost   | ISO / TR 581: 2005  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | Nelegirana in fino zrnata jekla   | Visokotrdnostna jekla                      | Jekla odporna proti lezenju                                  | Nerjavna jekla  | Nikelj in nikljeve zlitine   | Baker in bakrove zlitine  | Aluminij in aluminijeve zlitine | Titan in titanove zlitine                |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Elektrode  | EN ISO 2560:2020  | EN ISO 18275:2018                          | EN ISO 3580:2017   | EN ISO 3581:2016  | EN ISO 14172:2015            |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Žica (MIG, MAG)  | EN ISO 14341:2020   | EN ISO 16834:2012                          | EN ISO 21952:2012  | EN ISO 14343:2017   | EN ISO 18274:2010            | EN ISO 24373:2018   | EN ISO 18273:2015               | EN ISO 24034:2020                        |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Palica/ žica (TIG)   | EN ISO 636:2017   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Žica (EPP)   | EN ISO 14171:2016   | EN ISO 26304:2018                          | EN ISO 24598:2019  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Prašek (EPP)   | EN ISO 14174:2019   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Strženska žica (MIG/MAG)   | EN ISO 17632:2015   | EN ISO 18276:2017                          | EN ISO 17634:2015  | EN ISO 17633:2018   | ISO 12153:2012               |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Palice Plamensko   | EN ISO 20378:2018   |  | EN ISO 20378:2018  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Zaščitni plin  | EN ISO 14175:2008; EN 1089-3:2011   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| <p style="text-align: center;"><b>Oprema za obločno varjenje, varnost</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Viri varilnega toka</td><td>EN 60974-1:2018, -2:2019, -3:2019, -4:2016</td></tr> <tr><td>Podajalniki žice, gorilniki, držala elektrod, spojke, sponke</td><td>EN 60974-5:2019, -6:2016, -7:2019, -8:2009, -9:2010, -11:2010, -12:2011, -13:2011</td></tr> <tr><td>Oprema za plamensko varjenje</td><td>EN 560:2018, 561:2002, 1256:2006;<br/>EN ISO 2503:2009/A1:2015, 3821:2019, 5171:2019,<br/>7291:2010/A1:2015, 14113:2013, 10462:2013+A1:2019</td></tr> <tr><td>Ročni gorilniki</td><td>EN ISO 9012:2011</td></tr> <tr><td>Varovalna obleka, rokavice</td><td>EN ISO 11611:2015; SIST EN 12477:2002/A1:2005</td></tr> <tr><td>Varovanje oči</td><td>EN 175:1997, EN 379:2003+A1:2009</td></tr> <tr><td>Varilne zavese, trakovi, zasloni</td><td>EN ISO 25980:2014</td></tr> <tr><td>Kontrolni vprašalnik v zvezi z okoljem</td><td>EN 14717:2005</td></tr> <tr><td>Sistemi za prečiščevanje zraka</td><td>EN ISO 21904-1/-2/-3/-4:2020</td></tr> <tr><td>Dimi in prah - laboratorijske metode</td><td>EN ISO 15011-1:2009, -2:2009, -3:2009, -4:2018<br/>-5:2011, CEN ISO/TS 15011-6:2012</td></tr> <tr><td>Varilni plini in prah - vzorčenje</td><td>EN ISO 10882-1:2011, -2:2000</td></tr> </table>  | Viri varilnega toka   | EN 60974-1:2018, -2:2019, -3:2019, -4:2016 | Podajalniki žice, gorilniki, držala elektrod, spojke, sponke | EN 60974-5:2019, -6:2016, -7:2019, -8:2009, -9:2010, -11:2010, -12:2011, -13:2011 | Oprema za plamensko varjenje | EN 560:2018, 561:2002, 1256:2006;<br>EN ISO 2503:2009/A1:2015, 3821:2019, 5171:2019,<br>7291:2010/A1:2015, 14113:2013, 10462:2013+A1:2019 | Ročni gorilniki                 | EN ISO 9012:2011                         | Varovalna obleka, rokavice   | EN ISO 11611:2015; SIST EN 12477:2002/A1:2005 | Varovanje oči                          | EN 175:1997, EN 379:2003+A1:2009 | Varilne zavese, trakovi, zasloni              | EN ISO 25980:2014                              | Kontrolni vprašalnik v zvezi z okoljem | EN 14717:2005                       | Sistemi za prečiščevanje zraka | EN ISO 21904-1/-2/-3/-4:2020 | Dimi in prah - laboratorijske metode       | EN ISO 15011-1:2009, -2:2009, -3:2009, -4:2018<br>-5:2011, CEN ISO/TS 15011-6:2012 | Varilni plini in prah - vzorčenje | EN ISO 10882-1:2011, -2:2000  | <p style="text-align: center;"><b>Nepopolnosti, priprava zvarnih robov</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Stopnje sprejemljivost</td><td>EN ISO 5817:2014</td><td>EN ISO 10042:2018</td></tr> <tr><td></td><td>EN ISO 13919-1:2020</td><td>EN ISO 13919-2:2021</td></tr> <tr><td>Termično rezanje</td><td colspan="2">EN ISO 9013:2017</td></tr> <tr><td>Priporočila za pripravo zvarnih robov</td><td>EN ISO 9692-1:2013<br/>-2:1999, -4:2003</td><td>EN ISO 9692-3:2016</td></tr> <tr><td>Zasnova zvarnih spojev</td><td colspan="2">EN 1708-1:2010, EN 1708-2:2018, EN 1708-3:2012</td></tr> <tr><td>Razvrstitev nepopolnosti - Varjenje</td><td colspan="2">EN ISO 6520-1:2007, -2:2013</td></tr> <tr><td>Razvrstite nepopolnosti - Termično rezanje</td><td colspan="2">EN ISO 17658:2015</td></tr> <tr><td>Označevane nepopolnosti</td><td colspan="2">CEN ISO/TS 17845:2004</td></tr> <tr><td>Varivost</td><td colspan="2">ISO / TR 581: 2005</td></tr> </table> |  |          | Stopnje sprejemljivost                         | EN ISO 5817:2014                    | EN ISO 10042:2018  |                        | EN ISO 13919-1:2020 | EN ISO 13919-2:2021   | Termično rezanje                | EN ISO 9013:2017      |                             | Priporočila za pripravo zvarnih robov | EN ISO 9692-1:2013<br>-2:1999, -4:2003 | EN ISO 9692-3:2016       | Zasnova zvarnih spojev          | EN 1708-1:2010, EN 1708-2:2018, EN 1708-3:2012   |                        | Razvrstitev nepopolnosti - Varjenje | EN ISO 6520-1:2007, -2:2013 |  | Razvrstite nepopolnosti - Termično rezanje | EN ISO 17658:2015   |  | Označevane nepopolnosti | CEN ISO/TS 17845:2004                       |  | Varivost                            | ISO / TR 581: 2005                       |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Viri varilnega toka  | EN 60974-1:2018, -2:2019, -3:2019, -4:2016  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Podajalniki žice, gorilniki, držala elektrod, spojke, sponke   | EN 60974-5:2019, -6:2016, -7:2019, -8:2009, -9:2010, -11:2010, -12:2011, -13:2011   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Oprema za plamensko varjenje   | EN 560:2018, 561:2002, 1256:2006;<br>EN ISO 2503:2009/A1:2015, 3821:2019, 5171:2019,<br>7291:2010/A1:2015, 14113:2013, 10462:2013+A1:2019   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Ročni gorilniki  | EN ISO 9012:2011  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varovalna obleka, rokavice   | EN ISO 11611:2015; SIST EN 12477:2002/A1:2005   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varovanje oči  | EN 175:1997, EN 379:2003+A1:2009  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilne zavese, trakovi, zasloni   | EN ISO 25980:2014   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Kontrolni vprašalnik v zvezi z okoljem   | EN 14717:2005   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Sistemi za prečiščevanje zraka   | EN ISO 21904-1/-2/-3/-4:2020  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Dimi in prah - laboratorijske metode   | EN ISO 15011-1:2009, -2:2009, -3:2009, -4:2018<br>-5:2011, CEN ISO/TS 15011-6:2012  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varilni plini in prah - vzorčenje  | EN ISO 10882-1:2011, -2:2000  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Stopnje sprejemljivost   | EN ISO 5817:2014  | EN ISO 10042:2018                          |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
|  | EN ISO 13919-1:2020   | EN ISO 13919-2:2021                        |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Termično rezanje   | EN ISO 9013:2017  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Priporočila za pripravo zvarnih robov  | EN ISO 9692-1:2013<br>-2:1999, -4:2003  | EN ISO 9692-3:2016                         |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Zasnova zvarnih spojev   | EN 1708-1:2010, EN 1708-2:2018, EN 1708-3:2012  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Razvrstitev nepopolnosti - Varjenje  | EN ISO 6520-1:2007, -2:2013   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Razvrstite nepopolnosti - Termično rezanje   | EN ISO 17658:2015   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Označevane nepopolnosti  | CEN ISO/TS 17845:2004   |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |
| Varivost   | ISO / TR 581: 2005  |  |  |   |                              |   |                                 |  |                              |   |  |                                  |   |  |  |                                     |                                |                              |  |  |                                   |   |   |  |          |  |                                     |  |                        |                     |   |                                 |                       |                             |                                       |  |                          |                                 |  |                        |                                     |                             |  |  |   |  |                         |   |  |                                     |  |                                      |   |  |                   |  |                   |                    |                                  |               |                         |                 |                    |                   |                         |   |                  |   |                      |                   |                                      |               |                                  |                  |  |                              |                    |                               |                    |                              |                    |                          |               |                                |                          |                           |                         |                           |                     |                          |                     |                          |                     |                               |                     |  |                     |                                     |                      |                           |                   |                                |                |   |                |   |                   |  |  |  |  |