



Accredited to LST EN ISO/IEC 17025:2018

**Inspekta Lab, UAB, Testing laboratory**

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### SCOPE OF ACCREDITATION

(flexible)\*

| Materials or products tested                                                                                                                                   | Component, parameter or characteristic to be tested                 | Reference number of the document specifying test methods, clause (if relevant) | Techniques, methods and/or equipment used (where appropriate) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------|
| Base metal of equipment and structures<br><br>Metallic rolled and forged products, castings<br><br>Metal welded joints and claddings.                          | External defects                                                    | LST EN ISO 17637                                                               | Visual testing (VT)                                           |
|                                                                                                                                                                | External defects;<br>Internal defects                               | LST EN ISO 17636-1                                                             | Radiographic testing (RT)                                     |
|                                                                                                                                                                | External defects                                                    | LST EN ISO 3452-1                                                              | Penetrant testing (PT)                                        |
|                                                                                                                                                                | External defects;<br>Internal defects                               | LST EN ISO 17640<br>LST EN 10160                                               | Ultrasonic testing (UT)                                       |
|                                                                                                                                                                | External defects;<br>Subsurface defects                             | LST EN ISO 17638                                                               | Magnetic particle testing (MT)                                |
|                                                                                                                                                                | Surface defects;<br>Subsurface defects                              | LST EN ISO 15549<br>LST EN ISO 17643                                           | Eddy current testing (ET)                                     |
| Equipment, Vessels, tanks, pipelines, base metal, welded joints, main metal, welding joints                                                                    | Throughwall defects                                                 | LST EN 1593                                                                    | Leak testing (LT)                                             |
| Metallic and nonmetallic materials                                                                                                                             | Thickness                                                           | LST EN ISO 16809                                                               | Ultrasonic thickness measurement (UTT)                        |
| Valve seals, flanged joints, butt joints, piping ports, sampling points, pump seals, compressor seals, relief valve joints and other equipment and connections | Volatile organic compounds                                          | LST EN 15446                                                                   | Flame ionization method                                       |
| Metallic welded joints                                                                                                                                         | Internal defects                                                    | LST EN ISO 9017                                                                | Fracture tests                                                |
| Metallic materials                                                                                                                                             | Tensile strength;<br>Upper yield strength;<br>Lower yield strength; | LST EN ISO 6892-1                                                              | Tensile tests (Method B)                                      |

|                                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                      |                              |
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|                                                                                                                                                                                                                               | Proof strength;<br>Percentage elongation;<br>Percentage reduction of area;                                                                       |                                                                                      |                              |
| Weld metal in fusion welded joints                                                                                                                                                                                            | Tensile strength;<br>Upper yield strength;<br>Lower yield strength;<br>Proof strength;<br>Percentage elongation;<br>Percentage reduction of area | LST EN ISO 5178                                                                      | Longitudinal tensile tests   |
| Reinforcing steel<br>Load-bearing and<br>Non load-bearing<br>welded joints                                                                                                                                                    | Maximum tensile force;<br>Tensile strength;<br>Upper yield strength;<br>Lower yield strength;<br>Proof strength;<br>Percentage elongation;       | LST EN ISO 17660-1<br>LST EN ISO 17660-2<br>LST EN ISO 15630-1                       | Tensile tests                |
| Reinforcing steel<br>Load-bearing welded<br>joints                                                                                                                                                                            | Shear force                                                                                                                                      | LST EN ISO 17660-1<br>LST EN ISO 15630-2                                             | Shear tests                  |
| Steel for the<br>reinforcement and<br>prestressing of<br>concrete (Reinforcing<br>bars, rods and wire;<br>Welded fabric and<br>lattice girders;<br>Prestressing steel)                                                        | Maximum tensile force;<br>Tensile strength;<br>Upper yield strength;<br>Lower yield strength;<br>Proof strength;<br>Percentage elongation;       | LST EN ISO 15630-1<br>LST EN ISO 15630-2<br>LST EN ISO 15630-3                       | Tensile tests                |
| Welds in metallic<br>materials                                                                                                                                                                                                | Maximum tensile force;<br>Tensile strength;                                                                                                      | LST EN ISO 4136                                                                      | Transverse tensile test      |
| Metallic materials,<br>welds in metallic<br>materials                                                                                                                                                                         | Plasticity, when bent at the required angle, is defined by the formation of cracks                                                               | LST EN ISO 7438<br>LST EN ISO 5173                                                   | Bend tests                   |
| Reinforcing steel<br>Load-bearing welded<br>joints,<br>Steel for the<br>reinforcement and<br>prestressing of<br>concrete (Reinforcing<br>bars, rods and wire;<br>Welded fabric and<br>lattice girders;<br>Prestressing steel) | Plasticity, when bent at the required angle, is defined by the formation of cracks                                                               | LST EN ISO 17660-1<br>LST EN ISO 15630-1<br>LST EN ISO 15630-2<br>LST EN ISO 15630-3 | Bend tests                   |
| Metallic materials,<br>welds in metallic<br>materials                                                                                                                                                                         | Absorbed energy (KV <sub>2</sub> )                                                                                                               | LST EN ISO 148-1<br>LST EN ISO 9016                                                  | Charpy pendulum impact tests |

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|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------|
|                                                                                     |                                                                                                                           |                                                             | Non-standard test temperature: (-80÷20)°C                              |
| Metallic materials, welds in metallic materials                                     | Vickers hardness;                                                                                                         | LST EN ISO 6507-1<br>LST EN ISO 9015-1<br>LST EN ISO 9015-2 | Vickers hardness tests<br>Measuring range (20 ÷ 900) HV                |
| Metallic materials, welds in metallic materials                                     | Inner and surface macro and micro defects<br>Macro and micro structure                                                    | LST EN ISO 17639                                            | Metal macroscopic and microscopic structure examination                |
|                                                                                     | Micrographic determination of the apparent grain size                                                                     | LST EN ISO 643 (6.2 p.)                                     | Metal microscopic structure examination                                |
| Austenitic and duplex ferritic-austenitic Cr-Ni stainless steel weld metal          | Ferrite number (FN)                                                                                                       | LST EN ISO 8249 (8 p.)                                      | Delta-ferrite content determination by magnetic method                 |
| Metallic materials, welded metal joints and claddings, welded joints metals surface | Mass percent part of chemical elements in low alloy steels<br>Mass percent part of chemical elements in metals and alloys | LST CR 10320<br>DI-015 (LST CR 10320, GOST 18895)           | Optical emission analysis for metal chemical composition determination |
| High alloy steel, welded joints and claddings, welded joints metals surface         | Mass percent part of chemical elements                                                                                    | LST EN 10315                                                | X-ray Fluorescence spectrometry (XRF)                                  |

\* Defined and applicable for the whole accreditation scope following degree of flexibility: application of the updated documents of test methods already covered by accreditation or replacing them.

Actual scope of accreditation is published on the website: <https://inspekta.eu/paslaugos/laboratorija>

Director

Dalia Baležentė

Note. In case of any discrepancies, ambiguities or disputes regarding the subject matter content between the English and Lithuanian versions of the document, the Lithuanian version shall prevail.