Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 691**

of **Labortech Testing Solutions B.V.**

This annex is valid from: **16-03-2023** to **01-04-2024** Replaces annex dated: **N.v.t.**

## Location(s) where activities are performed under accreditation

### Head Office

Euroweg 18
2988 CM
Ridderkerk
The Netherlands

| Location | Abbreviation/ location code |
|---|---|
| Euroweg 18<br>2988 CM<br>Ridderkerk<br>The Netherlands | RI |

| No. | Material or product | Type of activity[1] | Internal reference number | Location |
|---|---|---|---|---|
| 1. | Metallic materials | Tensile test at room temperature<br>Determination of the yield strenght (ReL., ReH), proof strenght plastic extension (Rp), proof strenght total extension (Rt), percentage total extension at maximum force (Agt), tensile strenght (RM), percentage reduction of area (Z), percentage elongation after fracture (A) and location of break.<br>Temperature range 18 °C – 25 °C | SOP 11.01<br>ISO 4136, ISO 15630, ISO 5178, ISO 6892-1, ISO 9018, ISO 14555, EN 895, EN 10164, EN 10080, NEN 6008, ASTM E8, ASTM A370, ASTM B557, ASTM A770 | RI |

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

[1] If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on RvA-BR010-list.
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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| No. | Material or product | Type of activity[1] | Internal reference number | Location |
|---|---|---|---|---|
| 2. | Metallic materials | Tensile test at elevated temperature<br><br>Determination of the yield strenght (ReL., ReH), proof strenght plastic extension (Rp), proof strenght total extension (Rt), percentage total extension at maximum force (Agt), tensile strenght (RM), percentage reduction of area (Z), percentage elongation after fracture (A) and location of break.<br><br>Temperature range 50 °C – 900 °C | SOP 11.02<br>EN 10002-5, ASTM E21, ISO 6892-2, ISO 783 | RI |
| 3. | | Charpy pendulum impact test<br><br>Determination of the energy absorbed, lateral expansion and percentage shear.<br><br>Temperature range -196 °C en -60 °C – +25 °C | SOP 11.03<br>ISO 9016, ISO 148-1, ASTM A370, ASTM E 23, ASME IX (QW 171) | |
| 4. | | Bend test<br><br>Determination of ductility as evedenced by their ability to resist cracking during bending and the determination of defects. | SOP 11.04<br>ASTM A370, ASTM E290, ASME IX, AWS D1.1/D1.1M, AWS D1.2/D1.2M,AWS D1.6/D1.6M, ISO 5173, ISO 7438 | |
| 5. | | CTOD Test<br><br>Single Edge Notched Bend (SENB)<br>The determination of the CTOD-value<br><br>Temperature range -60 °C – 25 °C | SOP 11.05<br>ISO 12135, ISO 15653, BS 7448-1 t/m 4, ASTM E1290, DNV OS F101, DNV RP F108, EEMUA 158 | |
| 6. | | CTOD Test<br><br>Single Edge Notched Tensile (SENT)<br>The determination of the CTOD-value<br><br>Temperature range -80 °C – 25 °C | SOP 11.06<br>ISO 12135, ISO 15653, BS 7448 part 1-4, BS 8571, DNV-OS-F101, DNV-RP-F108 | |
| 7. | | Hardness test<br><br>The determination of a materials ability to resist plastic deformation from a Vickers, or Brinell indenter | SOP 11.07, SOP 11.09, SOP 11.11<br>ISO 6507-1, ISO 6507-2, ISO 6507-4, ISO 9015-1, ASTM E92, ISO 6506-1, ISO6506-2, ISO 6506-4 | |

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| 8. | Metallic materials | Optical Emision Spectroscopy (OES)<br><br>The determination of the content of elements: Al, Sb, Ar, B, Ca, C, Cr, Co, Cu, Mn, Mo, Ni, Nb, N, P, Si, S, Sn, Ti, V, Zr, Ceq<br><br>(Ceq is a calculation based on two or more of the above elements) | SOP 11.10<br>ASTM E415, ASTM A751, ASTM E1086 en EN 14726 | RI |
| 9. | | Ferite counting<br><br>Determination of volume fraction by manual point counting | SOP 11.12<br>ASTM E562 | |
| 10. | | Fracture test<br><br>The determination of weld defects | SOP 11.13<br>ISO 9017, API 1104, ASME IX, AWS D1.1/D1.1M, AWS D1.2/D1.2M,AWS D1.6/D1.6M ASME VIII, ASME IX | |
| | | **Opinions and interpretations** | | |
| 11. | Metallic materials | Macro and micro evaluation<br><br>The determination of weld structure, phase fractions, phase geometry, and phase distribution, metallographic evaluation of metals | SOP 11.14, SOP 11.15<br>ISO 5817,ISO 9017, ISO 17639, ASTM E3, ASTM E407 | RI |