

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

| | |
|--|--|
|  0038 Accredited to ISO/IEC 17025:2017 | Element Materials Technology Aerospace UK Limited, Trading as Element Materials Technology Issue No: 080 Issue date: 21 January 2026 |
| Crosslands House White Cross South Road Lancaster LA1 4XQ | Contact: Dr Stuart Read Tel: +44 (0) 7554 328 412 E-Mail: stuart.read@element.com Website: www.element.com |
| Testing performed by the Organisation at the locations specified below | |

Locations covered by the organisation and their relevant activities

Element Materials Technology Aerospace UK Limited, location code LAN, is accredited for a flexible scope that enables them to establish new and amended test methods, modification of existing methods and include newly revised or technically equivalent methods to conduct the activities detailed below, in accordance with their documented in-house procedure EL-AEE-QU-X-LAN-SOP 27020.

Element Materials Technology Aerospace UK Limited, location code MID, is accredited for a limited flexible scope that enables them to conduct accredited testing through the modification of existing test methods, include newly revised and technically equivalent methods and the addition of new matrices for chemistry testing to activities detailed below, in accordance with their documented in-house procedure E-E-QU-EE-X-TS-SOP001.

The standard detailed is the latest current version, unless withdrawn, which is stated, with the year to which this applies.



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Laboratory locations:

LAN: Element Materials Technology Aerospace UK Limited, Trading as Element Materials Technology Lancaster
MID: Element Materials Technology Aerospace UK Limited, Trading as Element Materials Technology Teesside

| Location details | Activity | Location code |
|---|--|--|
| Address Crosslands House White Cross South Road Lancaster LA1 4XQ | Local contact Dr Stuart Read Tel: +44 (0)7554 328412 E-Mail: stuart.read@element.com Website: www.element.com | Metals & Weldments - Mechanical tests Plastics and Composites – Mechanical tests & Physical Properties |
| Address Holwick Road Riverside Park Middlesbrough TS2 1QS | Local contact Dr Stuart Read Tel: +44 (0)7554 328412 E-Mail: stuart.read@element.com Website: www.element.com | Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Metals & Weldments – Elemental analysis |



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DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/Equipment/Techniques used | Location Code |
|--|--|--|---------------|
| METALS, ALLOYS and METAL PRODUCTS Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials | <u>Mechanical Tests</u> <u>Fatigue:</u> Low and high cycle, tensile/compressive and complex waveforms with: (a) Force control (b) Strain control (c) Displacement control (Temperature range -196°C and -100°C to 1150°C) (Forces up to \pm 400 kN) | BS 3518-1 BS 3518-3 (withdrawn) BS EN 6072 BS 7270 BS EN 3987 prEN 3874 (April 1988) prEN 3988 P1 (April 1998) BS ISO 1099 ASTM E466 ASTM E606/E606M Documented In-House Method developed using procedure EL-AEE-QU-X-LAN-SOP 27020. | LAN |
| | Rotating bending | BS ISO 1143 Documented In-House Method developed using procedure EL-AEE-QU-X-LAN-SOP 27020. | LAN |
| | Fatigue crack growth rate and threshold determination | BS EN 3873 BS ISO 12108 ASTM E647 Documented In-House Method developed using procedure EL-AEE-QU-X-LAN-SOP 27020. | LAN |
| Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials | <u>Fracture Toughness:</u> K_{Ic} (Temperature range -196°C and -100°C to 1150°C) | BS 7448-1 BS 7448-2 (Withdrawn) BS ISO 12135 ASTM B645 ASTM E399 ASTM E740M ASTM E1820 | LAN |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) Iron, Steel, Stainless Steel and other ferrous materials, Aluminium, Nickel, Titanium, and other non-ferrous materials | <u>Mechanical Tests</u> (cont'd) <u>Fracture Toughness:</u> (cont'd) R-Curve <u>Impact:</u> Charpy (U & V Notch) (Temperature range: - 196 °C to 100 °C) <u>Shear</u> <u>Bend:</u> Bend Test | ASTM E561 ASTM E23 ASTM A370 ASTM A923 (Method B) BS EN ISO 148-1 BS EN ISO 148-1 ASTM E23 BS EN ISO 7438 | LAN MID MID MID |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials | <u>Mechanical Tests</u> (cont'd) <u>Hardness:</u> Brinell (HBW 10/3000) Rockwell (B & C Scales) Vickers (HV5, HV10 & HV30) Vickers Hardness (Low Force and Microhardness) (HV0.1, HV0.2 and HV0.5) <u>Proof loading:</u> Proof Loading (Forces up to \pm 400kN) | BS EN ISO 6506-1 ASTM E10 BS EN ISO 6508-1 ASTM E18 BS EN ISO 6507-1 ASTM E92 BS EN ISO 6507-1 ASTM E92 ASTM E384 Documented In-House Method developed using procedure EL-AEE-QU-X-LAN-SOP 27020. Documented In-House Method EX-E-OP-FE-LA-MD26980 | MID MID MID MID LAN |
| Bearings and bushes | <u>Tensile:</u> Forces 2 kN up to 1000 kN Ambient temperature | BS EN ISO 6892-1 BS EN 2002-1 ASTM A370 ASTM E8/E8M | MID |
| Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials | Forces 1 kN up to 200 kN Temperature range 60°C to 650°C | BS EN ISO 6892-2 ASTM E21 | MID |
| | Forces 0.2 kN up to 400 kN Ambient temperature | ASTM E8/E8M BS EN ISO 6892-1 BS EN 2002-1 ASTM B557 ASTM B557M. | LAN |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials | <u>Mechanical Tests</u> (cont'd) <u>Tensile:</u> (cont'd) Forces 0.2 kN up to 400 kN Elevated temperature to 1150°C Forces 0.2 kN up to 400 kN Sub-Zero Temperature -196°C and -100°C to ambient Through thickness tensile | ASTM E21 BS EN ISO 6892-2 BS EN 2002-2 BS EN ISO 6892-3 | LAN |
| Pipe and Pipeline Components | Ring flattening tests (Forces up to 1000 kN) Ring flaring tests | BS EN 10164 ASTM A770/A770M BS EN ISO 8492 ASTM A106/A106M Clause 12 ASTM A370 ASTM A530/A530M Clause 21 ASTM A370 | MID |
| Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials | <u>Metallurgical Tests</u> Microstructural Examination Macrostructure / Microstructure Inclusion counting Volume fraction | Documented In-House Method EX-G-OP-MET-X-MD 25217 API STD 6ACRA ASTM E45 ASTM E562 | MID |
| Titanium Alloys | Alpha Case | Documented In-House Method TL MET20 | MID |
| Duplex stainless steels | Detecting detrimental Intermetallic phases Austenite Spacing Grain size (Comparison method and Intercept method) | ASTM A923 (Method A) DNV-RP-F112 Section 7 ASTM E112 | MID |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Metallurgical Tests</u> (cont'd) <u>Corrosion Tests</u> | | |
| Austenitic Stainless Steels | Pitting corrosion | BS 4515-2 (Annex C) ASTM G48 (Method A) | MID |
| Stainless Steels | Susceptibility to inter-granular corrosion | ASTM A262 Practices A & E | MID |
| Duplex Stainless steels | Detecting detrimental Intermetallic phases | ASTM A923 (Method C) | MID |
| Nickel based alloys | Susceptibility to inter-granular corrosion | ASTM G28 Method A | MID |
| Weldments | Bend, fracture, hardness, impact, tensile micro and macro-examination, in accordance with specified welding codes | BS EN 287-1 BS EN 288-9:1999(Withdrawn) BS 4515-1 BS 4515-2 BS 4871-3 (Withdrawn) BS 4872-1 BS 4872-2 BS EN ISO 9606-1 BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS EN ISO 4136 BS EN ISO 5173 BS EN ISO 5178 BS EN ISO 9015-1 BS EN ISO 9016 BS EN ISO 9017 BS EN ISO 17639 PD 5500 ASME BPVC IX AWS D1.1/D1.1M ASME B31.3 API 1104 API 5L API 6A DNV-OS-F101 | MID |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Elemental Analysis</u> | | |
| Metals and alloys | Elemental analysis Selected by variable detection array | Documented In-House Method TL/CHEM 03B using ICAP ICP | MID |
| Aluminium Alloys | B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, V, Zn & Zr | Documented In-House Method TL/CHEM03B-1 using ICP-OES | MID |
| Titanium Alloys | Al, B, Bi, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, Si, Sn, Ta, V, W, Y, Zn & Zr | Documented In-House Method TL/CHEM03C-8 using ICP-OES | MID |
| Cobalt Alloys | Al, B, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Ti, V, W & Zr | Documented In-House Method TL/CHEM03B-22 using ICP-OES | MID |
| Copper Alloys | Ag, As, Al, B, Be, Bi, Cd, Co, Cr, Fe, In, Mg, Mn, Ni, P, Pb, Sb, Se, Si, Sn, Te, Ti, Zn & Zr | Documented In-House Method TL/CHEM03B-5 using ICP-OES | MID |
| Carbon & Low Alloy Steels, Tool Steels, Cast Iron | As, Al, B, Bi, Ca, Cd, Ce, Co, Cr, Cu, La, Mg, Mn, Mo, Nb, Ni, P, Pb, Sb, Se, Si, Sn, Ta, Te, Ti, V, W, Zn & Zr | Documented In-House Method TL/CHEM03B-2 using ICP-OES | MID |
| Stainless Steels | Al, B, Ca, Cd, Ce, Co, Cr, Cu, La, Mg, Mn, Mo, Nb, Ni, P, Si, Sn, Ta, Te, Ti, V, W, Zn & Zr | Documented In-House Method TL/CHEM03B-2 using ICP-OES | MID |
| Nickel Alloys | Al, B, Bi, Ca, Co, Cr, Cu, Fe, Hf, Mg, Mn, Mo, Nb, Ni, P, Pb, Si, Sn, Ta, Ti, V, W, Zn & Zr | Documented In-House Method TL/CHEM03B-4 using ICP-OES | MID |
| Zinc Alloys | As, Al, B, Be, Bi, Cd, Ce, Co, Cr, Cu, Fe, Hg, In, Mg, Mn, Ni, P, Pb, Sb, Si, Sn, Ti, Ti, Zn & Zr | Documented In-House Method TL/CHEM03B-6 using ICP-OES | MID |
| Nickel Alloys | Bi, Pb, Se, Sn, Sb, As | Documented In-House method TL/CHEM20-1 using ICP-MS | MID |



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| METALS, ALLOYS and METAL PRODUCTS (cont'd) | <u>Elemental Analysis</u> (cont'd) | | |
| Nickel Alloys | Ag | Documented In-House method TL/CHEM20-2 using ICP-MS | MID |
| Carbon & Low Alloy Steels | Al, B, C, Ca, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, Sn, Ta, Ti, V, W & Zr | Documented In-House Method TL/CHEM 02 using Spark OES | MID |
| Stainless Steels | Al, B, C, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, Sn, Ta, Ti, V & W | Documented In-House Method TL/CHEM 02 using Spark OES | MID |
| Carbon and Low Alloy Steels, Stainless Steels, Austenitic Steels and Ferritic Steels, Cast Irons, Silicon-Iron, Titanium Alloys, Nickel Alloy, Cobalt Alloy and Copper Alloy | Carbon and Sulphur content | Documented In-House Method TL/CHEM 04B using combustion techniques | MID |
| Iron, Steel, Stainless Steel and other Ferrous Metals, Nickel Alloys, Cobalt Alloys and Titanium Alloys | Oxygen and Nitrogen content | Documented In-House Method TL/CHEM13A, TL/CHEM13B and TL/CHEM13C using Inert Gas Fusion techniques | MID |
| Titanium alloys | Hydrogen content | ASTM E1447 Documented In-House Method TL/CHEM14B using Inert Gas Fusion techniques | MID |
| Iron, Steel, Stainless Steel, Nickel and other ferrous materials | Hydrogen content | Documented In-house method TL/CHEM 18 using Inert Gas Fusion Technique | MID |



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| METAL POWDER | <u>Chemical Tests</u> Particle Size Distribution - Sieve Analysis Apparent Density – Carney Funnel Apparent Density – Hall Funnel Apparent Density – Funnel Method Tap Density Flow Rate – Carney Funnel Flow Rate – Hall Funnel Standard test method for particle size distribution of metal powders and related compounds by light scattering techniques. Particle size analysis Laser diffraction techniques | ASTM B214 and BS EN ISO 4497 using Documented In-House Method SOP105804 ASTM B417 using Documented In-House Method SOP107452 ASTM B212 using Documented In-House Method SOP106273 BS EN ISO 3923-1 ASTM B527 and BS EN ISO 3953 using Documented In-House Method SOP106276 ASTM B964 using Documented In-House Method SOP107454 ASTM B213 and BS EN ISO 4490 using Documented In-House Method SOP105806 ASTM B822 BS ISO 13320 | MID |



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| PLASTICS, including Rigid and Reinforced Plastics and COMPOSITES | <u>Mechanical Tests</u> (Temperature range -65°C to 300°C (uncontrolled relative humidity)) Low Cycle Fatigue | ASTM D3479/D3479M Documented In-House Method EL-AEE-QU-X-LAN-SOP 27020. | LAN |

END