

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The standard detailed is the latest current version, unless withdrawn, which is stated, with the year to which this applies.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



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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 ± 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
	<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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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	ASTM E561	LAN
	<u>Impact:</u> Charpy (U & V Notch) (Temperature range: - 196 °C to 100 °C)	ASTM E23 ASTM A370 ASTM A923 (Method B) BS EN ISO 148-1	MID
	Shear	BS EN ISO 148-1 ASTM E23	MID
	<u>Bend:</u> Bend Test	BS EN ISO 7438	MID



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)		
	<u>Hardness:</u>		
Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials	Brinell (HBW 10/3000)	BS EN ISO 6506-1 ASTM E10	MID
	Rockwell (B & C Scales)	BS EN ISO 6508-1 ASTM E18	MID
	Vickers (HV5, HV10 & HV30)	BS EN ISO 6507-1 ASTM E92	MID
	Vickers Hardness (Low Force and Microhardness) (HV0.1, HV0.2 and HV0.5)	BS EN ISO 6507-1 ASTM E92 ASTM E384	MID
	<u>Proof loading:</u>		
Bearings and bushes	Proof Loading (Forces up to $\pm 400\text{kN}$)	Documented In-House Method developed using procedure EL-AEE-QU-X-LAN-SOP 27020. Documented In-House Method EX-E-OP-FE-LA-MD26980	LAN
	<u>Tensile:</u>		
Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials	Forces 2 kN up to 1000 kN Ambient temperature	BS EN ISO 6892-1 BS EN 2002-1 ASTM A370 ASTM E8/E8M	MID
	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	ASTM E21 BS EN ISO 6892-2 BS EN 2002-2	LAN
	Forces 0.2 kN up to 400 kN Sub-Zero Temperature -196°C and -100°C to ambient	BS EN ISO 6892-3	LAN
Pipe and Pipeline Components	Through thickness tensile	BS EN 10164 ASTM A770/A770M	MID
	Ring flattening tests (Forces up to 1000 kN)	BS EN ISO 8492 ASTM A106/A106M Clause 12 ASTM A370 ASTM A530/A530M Clause 21	MID
	Ring flaring tests	ASTM A370	MID
Iron, Steel, Stainless Steel and other ferrous materials, Nickel, Titanium, and other non-ferrous materials	<u>Metallurgical Tests</u>		
	Microstructural Examination	Documented In-House Method EX-G-OP-MET-X-MD 25217	MID
	Macrostructure / Microstructure	API STD 6ACRA	MID
	Inclusion counting	ASTM E45	MID
Titanium Alloys	Volume fraction	ASTM E562	MID
	Alpha Case	Documented In-House Method TL MET20	MID
	Detecting detrimental Intermetallic phases	ASTM A923 (Method A)	MID
Duplex stainless steels	Austenite Spacing	DNV-RP-F112 Section 7	MID
	Grain size (Comparison method and Intercept method)	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, Tl, 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	ASTM B214 and BS EN ISO 4497 using Documented In-House Method SOP105804	MID
	Apparent Density – Carney Funnel	ASTM B417 using Documented In-House Method SOP107452	MID
	Apparent Density – Hall Funnel	ASTM B212 using Documented In-House Method SOP106273	MID
	Apparent Density – Funnel Method	BS EN ISO 3923-1	MID
	Tap Density	ASTM B527 and BS EN ISO 3953 using Documented In-House Method SOP106276	MID
	Flow Rate – Carney Funnel	ASTM B964 using Documented In-House Method SOP107454	MID
	Flow Rate – Hall Funnel	ASTM B213 and BS EN ISO 4490 using Documented In-House Method SOP105806	MID
	Standard test method for particle size distribution of metal powders and related compounds by light scattering techniques.	ASTM B822	MID
	Particle size analysis Laser diffraction techniques	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			