


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0136</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Element Materials Technology Sheffield Ltd, Trading as Element Materials Technology Sheffield – Magna Way</p> <p>Issue No: 070 Issue date: 31 July 2025</p> <table border="1"> <tr> <td data-bbox="405 481 842 701"> <p>3 Ignite Magna Way Rotherham South Yorkshire S60 1FD</p> </td><td data-bbox="842 481 1476 701"> <p>Contact: Dr Stuart Read Tel: +44 (0) 7554 328 412 Fax: +44 (0) 114 723 248 E-Mail: Stuart.Read@element.com Website: www.element.com</p> </td></tr> </table>	<p>3 Ignite Magna Way Rotherham South Yorkshire S60 1FD</p>	<p>Contact: Dr Stuart Read Tel: +44 (0) 7554 328 412 Fax: +44 (0) 114 723 248 E-Mail: Stuart.Read@element.com Website: www.element.com</p>
<p>3 Ignite Magna Way Rotherham South Yorkshire S60 1FD</p>	<p>Contact: Dr Stuart Read Tel: +44 (0) 7554 328 412 Fax: +44 (0) 114 723 248 E-Mail: Stuart.Read@element.com Website: www.element.com</p>		
<p>Testing performed at the above address only</p>			

DETAIL OF ACCREDITATION

Element Materials Technology Sheffield Ltd is accredited for a flexible scope that enables them to:
Modify existing test methods already covered by ISO/IEC 17025:2017 accreditation to broaden the applicability to other materials, products and sample types.

Include technically equivalent standard methods to those already covered by ISO/IEC 17025:2017 accreditation.

Include newly revised standard methods that are already covered by ISO/IEC 17025:2017.

In accordance with their documented in-house procedure SOP 109864 Management of Testing Flexible Scope at Sheff-DT

The standard detailed is the latest current version, unless withdrawn, which is stated, with the year to which this applies

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>METALS, ALLOYS and METAL PRODUCTS</p> <p>Cast iron, Ferrous alloys, High speed tool steel, Stainless steels</p> <p>Aluminium alloys</p> <p>Cobalt alloys</p>	<p><u>Chemical Tests</u></p> <p>Si, Mn, P, Cr, Mo, Ni, Al, Cu, Co, Ti, V, Nb, W, Sn, Mg, Zr</p> <p>C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, B, Co, Pb, Ti, V, Nb, W, Sn, Zr, N</p> <p>C, S</p> <p>O, N, H</p> <p>Cu, Si, Mn, Cr, Ni, Bi, Pb, Mg, Sn, Ti, V, Zn, Fe, Zr</p> <p>Si, Mn, P, Cr, Ni, Mo, Fe, W, Al, Sn, Ti, Co, Cu</p> <p>C, S</p> <p>O, N, H</p>	<p>Documented In-House Methods</p> <p>ICP-OES – ICP6000</p> <p>Spark-OES – OES MAX1</p> <p>Combustion – CS844</p> <p>Fusion – ONH836</p> <p>ICP-OES – ICP6000</p> <p>ICP-OES – ICP6000</p> <p>Combustion – CS844</p> <p>Fusion – ONH836</p>



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Element Materials Technology Sheffield Ltd, Trading as Element
Materials Technology Sheffield – Magna Way**

Issue No: 070 Issue date: 31 July 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods
Copper alloys	Si, Mn, P, Cr, Ni, Al, Bi, Cd, Sb, Cu, Pb, Mg, Be, Zn, Fe, B	ICP-OES – ICP6000
	Mn, P, Cr, Ni, Al, Bi, Pb, Sn, Zn, Fe	Spark-OES – OES MAX1
	Carbon	Combustion – CS844
	Oxygen	Fusion – ONH836
Nickel alloys	Si, Mn, Ta, P, Cr, Mo, Ni, Al, Co, Cu, Pb, Ti, W, V, Nb, Fe	ICP-OES – ICP6000
	C, Si, Mn, P, S, Cr, Mo, Al, Co, Cu, Ti, W, V, Nb, Fe	Spark-OES – OES MAX1
	C, S	Combustion – CS844
	O, N, H	Fusion – ONH836
Titanium alloys	Ti, V, Al, Fe, Mg, Mn, Zr, Mo, Si, Sn, Cu	ICP-OES – ICP6000
	Carbon	Combustion – CS844
	O, N, H	Fusion – ONH836
	<u>Corrosion Tests</u>	
Iron, Steels and other ferrous metals	Intergranular corrosion	BS EN ISO 3651-2 ASTM A262 Methods A, C & E ASTM G28-2022 Method A
	Pitting corrosion	ASTM G48 Method A
	<u>Mechanical Tests</u>	
	Bend	BS EN ISO 7438
	Compression (temperature - ambient) (forces from 0.4 kN to 2000 kN)	Documented In-House Methods MTP12



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Element Materials Technology Sheffield Ltd, Trading as Element
Materials Technology Sheffield – Magna Way**

Issue No: 070 Issue date: 31 July 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<p><u>Mechanical Tests</u></p> <p>Impact: Izod Charpy (V- notch) (temperatures -196°C to ambient)</p> <p>Creep: (forces from 1.5 kN (330lbs) to 45 kN (10,000lbs)) (ambient temperature to 950°C)</p> <p>Hardness: Brinell (10/3000, 10/1000, 5/750)</p> <p>Rockwell (Scales B & C)</p> <p>Vickers (0.1, 0.2, 0.3, 0.5, 1.0, 10 & 30 kg)</p> <p>Stress-rupture (forces from 1.5 kN (330lbs) to 45 kN (10,000lbs)) (ambient temperature to 950°C)</p> <p>Tensile: (temperature - ambient) (forces from 0.2 kN to 800 kN)</p> <p>Tensile: (Elevated temperature from ambient to 950°C) (forces from 0.2 kN to 250 kN)</p> <p>Proof and Tensile strength (temperature - ambient) (forces from 0.2 kN - 2000 kN)</p>	<p>BS 131-1 BS EN ISO 148-1 ASTM E23</p> <p>BS EN 2002-005 BS EN ISO 204 ASTM E139</p> <p>BS EN ISO 6506-1 ASTM E10</p> <p>BS EN ISO 6508-1 ASTM E18</p> <p>BS EN ISO 6507-1 ASTM E92 ASTM E384 Documented In-House Method MET 5N</p> <p>BS EN 2002-005 BS EN ISO 204 ASTM E139 ASTM E292</p> <p>BS EN ISO 6892-1 BS EN 2002-1 ASTM A370 ASTM E8/E8M</p> <p>BS EN ISO 6892-2 BS EN 2002-2 ASTM E21</p> <p>Documented In-House Method MTP2</p>



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Element Materials Technology Sheffield Ltd, Trading as Element
Materials Technology Sheffield – Magna Way**

Issue No: 070 Issue date: 31 July 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
Bolts, screws and nut	Tension and compression	To documented plans agreed with clients. BS EN ISO 898-1 BS EN ISO 898-2 BS EN ISO 3506-1(Excluding clause 9.5) BS EN ISO 3506-2 BS 3692 (nuts) ASTM A194/A194M ASTM A370 ASTM F606/F606M SAE J429
	Shear stress	Documented In-House Method MTP40
Metal Scaffolding Couplers	Friction type sleeve couplers - bending moment	BS EN 74-1
	Right angle couplers - rotation, cruciform bending moment and stiffness, pull apart force, and indentation test	BS EN 74-1
	Failure force for right angle and swivel couplers	BS EN 74-1
	Slippage force for right angle, swivel and sleeve couplers	BS EN 74-1
	Slippage force for Putlog couplers	BS 1139-2.2



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Element Materials Technology Sheffield Ltd, Trading as Element
Materials Technology Sheffield – Magna Way**

Issue No: 070 Issue date: 31 July 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
Weldments and brazings	Tests designated in specified welding codes as detailed below Bend, Fracture, Hardness, Impact, Tensile, Micro and Macro-examination tests in accordance with specified welding and brazing codes	BS 4871-3:1985 (withdrawn) BS 4872-1: BS 4872-2 BS EN 287-1:2011 (Withdrawn) BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS EN ISO 15614-8 BS EN ISO 4136 BS EN ISO 5173 BS EN ISO 5178 BS EN ISO 9015-1 BS EN ISO 9015-2 BS EN ISO 9016 BS EN ISO 9017 BS EN 17639 BS 2633 PD 5500 ASME IX
	Case depth Decarburised depth	BS 6286 BS EN ISO 2639 ISO 3754 Documented In-House Method MET1
	Macroscopic determination of grain flow	Documented In-House Method MET3N
	Grain size	ASTM E112
	Identification and counting of inclusions	ASTM E45 Documented In-House Methods MET2N
	Volume Fraction and Delta Ferrite (Manual method)	ASTM E562 AMS 2315H



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Element Materials Technology Sheffield Ltd, Trading as Element
Materials Technology Sheffield – Magna Way**

Issue No: 070 Issue date: 31 July 2025

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Physical Tests</u>	
Steel tubes	Dimensional assessment	BS EN 39 Documented In-House Method MTP19
Metals, Alloys and Metal Products	Coefficient of Linear Thermal Expansion (CLTE)	ASTM E228 using a push-rod Dilatometer
END		