


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<b>Special Testing Ltd</b>	
	<b>Issue No: 057    Issue date: 27 July 2018</b>	
	<b>Bacon Lane</b> <b>Sheffield</b> <b>South Yorkshire</b> <b>S9 3NH</b>	<b>Contact: Mr L Burdett</b> <b>Tel: +44 (0)114 244 1061</b> <b>Fax: +44 (0)114 244 5566</b> <b>E-Mail: liamburdett@specialsteelgroup.com</b> <b>Website: www.specialtesting.co.uk</b>
<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

#### Flexible Scope

The laboratory is accredited to ISO/IEC17025:2005 for testing activities in accordance with the standards highlighted in the schedule. This may also include tests on the same or similar product types against standards, or customer-specified methods, that are not specifically listed in this Schedule, providing that:

- (1) The method or standard does not introduce new principles of measurement.
- (2) The method or standard does not require measurements to be made outside the parametric boundaries defined within the standard specifications already accredited and detailed within this Schedule of Accreditation.

Information about flexible scopes of accreditation is available in UKAS document LAB39

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>METALS, ALLOYS and METAL PRODUCTS</b>	<u>Corrosion Tests</u>	
Austenitic stainless steels	Susceptibility to intergranular attack	BS EN ISO 3651-2 Method A, B & C ASTM A262 Practice A, C & E
Wrought, nickel and Chromium bearing alloys	Susceptibility to intergranular attack	ASTM G28 Practice A, B
Stainless steels	Crevice & pitting resistance	ASTM G48 Practice A, B
Duplex stainless steels	Detecting detrimental intermetallic phases	ASTM A923 (Method C)
	<u>Mechanical Tests</u>	
	Bend	BS EN ISO 7438



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Hardness:</p> <p>Brinell (10/1000), (10/3000)</p>	<p>BS EN ISO 6506-1 ASTM A370 ASTM E10</p>
	<p>Rockwell (Scales B &amp; C)</p> <p>Vickers ( HV10 and HV30)</p> <p>Vickers Micro-hardness (HV0.3, 0.5 and HV1.0)</p> <p>Impact:</p> <p>Izod Charpy (V and U notches) (temperatures from -196°C to ambient)</p> <p>Tensile - Ambient temperature (forces from 0.6 kN to 250 kN)</p> <p>Tensile – Elevated temperatures (from ambient to 990°C and forces from 0.6 kN to 250 kN)</p> <p>Stress rupture (temperatures from ambient to 1000°C)</p>	<p>BS EN ISO 6508-1 ASTM A370 ASTM E18</p> <p>BS EN ISO 6507-1 ASTM E92</p> <p>BS EN ISO 6507-1 ASTM E384</p> <p>BS 131:Part 1 BS EN ISO 148-1 ASTM E23 ASTM A370 ASTM A923 (Method B)</p> <p>BS 4A4-1-1 BS EN 2002-1 BS EN ISO 6892-1 ASTM E8/E8M ASTM A370</p> <p>BS EN 2002-2 BS EN ISO 6892-2 ASTM E21</p> <p>BS EN ISO 204 BS 4A4-Part 1-Section 3(Withdrawn) BS EN 2002-005 ASTM E139 ASTM E292</p>
Fasteners – external threads	<p>Proof load (Force from 20kN to 1500kN)</p>	<p>ASTM A370 (Annex 3) ASTM F606/F606M BS EN ISO 898-1 BS EN ISO 3506-1</p>



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
	Tensile - including wedge loading (Force from 20kN to 1500kN)	ASTM A370 (Annex 3) ASTM F606/F606M BS EN ISO 898-1 BS EN ISO 3506-1
Fasteners – internal threads	Proof load (Force from 20kN to 1500kN)	ASTM A194/A194M ASTM A962/A962M ASTM F606/F606M BS EN ISO 898-2 BS EN ISO 3506-2
	<u>Metallurgical Tests</u>	
	Decarburisation	BS EN ISO 3887 (microscopic method) ASTM E1077 (macro & microscopic methods)
	Macroetch examination	Documented In-House Method TP/1036 ASTM E381 ASTM A604/A604M API 6A718
	Volume Fraction Counting	BS 7590 ASTM E562
Duplex stainless steels	Detecting detrimental Intermetallic phases	ASTM A923 (Method A)
	Ferrite content	Documented In-House Method TP/1057 using Fischer Ferritscope
	Grain size	BS EN ISO 643 ASTM E112 (comparison & Intercept methods) ASTM E930 ASTM E1181
	Inclusion content	ASTM E45 Documented In-House Method TP/1028 BS4S100 (withdrawn)



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u> (cont'd)  Replica Microstructures  Sulphur prints  Determination of surface features including fracture surfaces at magnifications of X10 to X2000	ASTM E1351  ASTM E1180  Documented In-House Method TP/1046 ASM Metals Handbook Vol. 9
Ferrous and Non-ferrous alloys including:  Manganese Steel, Tool Steel, General Steel and Low Alloy Steel  Nickel base alloys  Stainless Steel, Low Allow Steel  Nickel Base Alloys  Ferrous and Non-ferrous metals and alloys	<u>Chemical Tests</u>  Elemental analysis  Fe, C, Si, Mn, P, S, Cr, Mo, Ni, Al, As, B, Co, Cu, Nb, Pb, Sn, Ti, V, W  Fe, C, Si, Mn, P, S, Cr, Mo, Ni, Al, As, B, Co, Cu, Nb, Pb, Sn, Ti, V, W  Fe, C, Si, Mn, P, S, Cr, Mo, Ni, Al, As, B, Co, Cu, Nb, Pb, Sn, Ti, V, W, Ta, Sb  Fe, C, Si, Mn, P, S, Cr, Mo, Ni, Al, As, B, Co, Cu, Nb, Pb, Sn, Ti, V, W, Ta  Carbon/Sulphur Analysis  Oxygen/Nitrogen Analysis  Hydrogen Analysis	Documented In-House Method TP/1050 using a Rank Hilger E200 Optical Emission Spectroscopy    Documented In-House Method TP/1058 using a Spectro Maxx M Optical Emission Spectroscopy    Documented In House Method TP 1051 using an ELTRA CS800 analyser  Documented In House Method TP 1052 using an ELTRA ON900 analyser  Documented In House Method TP 1052a using an LECO H836 analyser

END