

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Special Testing Ltd</h3> <p>Issue No: 035 Issue date: 23 January 2012</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS	<u>Corrosion Tests</u>	
Austenitic stainless steels	Susceptibility to intergranular attack	BS EN ISO 3651-2:1998 Method A, B & C ASTM A262- 10 Practice A, C & E
Wrought, nickel and Chromium bearing alloys	Susceptibility to intergranular attack	ASTM G28-02 (08) Practice A, B
Stainless steels	Crevice & pitting resistance	ASTM G48-11 Practice A, B
	<u>Mechanical Tests</u>	
	Bend	BS EN ISO 7438:2005
	Hardness: Brinell (10/3000)	BS EN ISO 6506-1:2005 ASTM A370-11 ASTM E10-10
	Rockwell (Scales B & C)	BS EN ISO 6508-1:2005 ASTM A370-11 ASTM E18-08b
	Vickers (HV10 and HV30)	BS EN ISO 6507-1:2005 ASTM E384-11
	Impact: Izod Charpy (V and U notches) (temperatures from -196°C to ambient)	BS 131:Part 1:1961(1996) BS EN ISO 148-1:2010 ASTM E23-07ae1



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
	Tensile (temperatures from ambient to 800°C forces from 0.6 kN to 250 kN)	BS EN ISO 6892-1:2009 BS 4A4:Part 1:Section 1:1966 BS EN ISO 2002-1 :2005 BS 4A4:Part 1:Section 2:1967 (Withdrawn) BS EN 10002-5:1992 (Withdrawn) ASTM A370-11 ASTM E8/E8M-09 ASTM E21-09
	Stress rupture (temperatures from ambient to 1000°C)	BS EN ISO 204:2009 BS 4A4:Part 1:Section 3:1967 (Withdrawn) ASTM E139-11 ASTM E292-09
	<u>Metallurgical Tests</u>	
	Decarburisation	BS EN ISO 3887:2003 (microscopic method) ASTM E1077-01(05) (macro & microscopic methods)
	Macroetch examination	Documented In-House Method TP/1036 based on ASTM E381-01(06) ASTM A604/A604M-07 API 6A718 2 nd Edition
	Volume Fraction Counting	BS 7590:1992 ASTM E562-11
	Ferrite content	Documented In-House Method TP/1057 using Fischer Ferriscope
	Grain size	BS EN ISO 643:2003 ASTM E112-10 (comparison method) ASTM E930-99(07) ASTM E1181-02 (2008)
	Inclusion content	ASTM E45-11 Documented In-House Method TP/1028 based on BS4S100 (withdrawn)



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u> (cont'd)	
	Replica Microstructures	ASTM E1351-01(06)
	Sulphur prints	ASTM E1180-08
	Determination of surface features including fracture surfaces at magnifications of X10 to X2000	Documented In-House Method TP/1046 based on ASM Metals Handbook Vol. 9: 2004
	<u>Chemical Tests</u>	
Ferrous and Non-ferrous alloys including: Manganese Steel, Tool Steel, General Steel and Low Alloy Steel	Elemental analysis Fe, C, Si, Mn, P, S, Cr, Mo, Ni, Al, As, B, Co, Cu, Nb, Pb, Sn, Ti, V, W	Documented In-House Method TP/1050 using a Rank Hilger E200 Optical Emission Spectroscopy
Nickel base alloys	Fe, C, Si, Mn, P, S, Cr, Mo, Ni, Al, As, B, Co, Cu, Nb, Pb, Sn, Ti, V, W	
Ferrous and Non-ferrous metals and alloys	Carbon/Sulphur Analysis	Documented In House Method TP 1051 using an ELTRA CS800 analyser
	Oxygen/Nitrogen Analysis	Documented In House Method TP 1052 using an ELTRA ON900 analyser
	Hydrogen Analysis	Documented In House Method TP 1052 using an ELTRA OH900 analyser
END		