Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0046

Accredited to ISO/IEC 17025:2017

Special Testing Ltd

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2017 for testing activities in accordance with the standards highlighted in the schedule and internal procedure for flexible scope QP17. 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 GEN4

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 Method A, B & C ASTM A262 Practice A & 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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	Mechanical Tests (cont'd)	
	Hardness:	
	Brinell (HBW10/1000 HBW10/3000)	BS EN ISO 6506-1 ASTM A370 ASTM E10
	Rockwell (HRB and HRC)	BS EN ISO 6508-1 ASTM A370 ASTM E18
	Vickers (HV10 and HV30)	BS EN ISO 6507-1 ASTM E92
	Vickers Micro-hardness (HV0.3, HV0.5 and HV1.0)	BS EN ISO 6507-1 ASTM E384
	Impact:	
	Izod	BS 131:Part 1
	Charpy (V and U notches) (temperatures, -196°C and -120°C to ambient)	BS EN ISO 148-1 ASTM E23 ASTM A370 ASTM A923 (Method B)
	Tensile - Ambient temperature (forces from 0.6 kN to 250 kN)	BS 4A4-1-1 BS EN 2002-1 BS EN ISO 6892-1 ASTM E8/E8M ASTM A370
	Tensile – Elevated temperatures (from ambient to 990°C and forces from 0.6 kN to 250 kN)	BS EN 2002-2 BS EN ISO 6892-2 ASTM E21
	Stress rupture (temperatures from ambient to 1000°C)	BS EN ISO 204 BS 4A4-Part 1-Section 3(Withdrawn) BS EN 2002-005 ASTM E139 ASTM E292
Fasteners – external threads	Proof load (Forces from 20kN to 1500kN)	ASTM A370 (Annex 3) ASTM F606/F606M BS EN ISO 898-1 BS EN ISO 3506-1

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	Mechanical Tests (cont'd)	
Fasteners – external threads (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 - Nuts (Forces from 20kN to 1500kN)	ASTM A194/A194M ASTM A962/A962M ASTM F606/F606M BS EN ISO 898-2 BS EN ISO 3506-2
	Metallurgical Tests	
	Decarburisation	BS EN ISO 3887 (microscopic method) ASTM E1077 (macro & microscopic methods) ASTM F2328/F2328M BS EN ISO 898-1
	Macroetch examination	Documented In-House Method TP/1036 ASTM E381 ASTM A604/A604M API 6A718
	Volume Fraction Counting	BS 7590 ASTM E562 AMS 2315H
Duplex stainless steels	Micro Examination Detecting detrimental Intermetallic phases	ASTM A923 (Method A) TP/1029
	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)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	Metallurgical Tests (cont'd)	
Duplex stainless steels (cont'd)	Replica Microstructures	ASTM E1351
	Sulphur prints	ASTM E1180
Titanium Alloys	Alpha Case	Documented In-House Method TP/1075
	Chemical Tests	
Ferrous and Non-ferrous alloys including:	Elemental analysis	
Tool Steel	Aluminium, Carbon, Chromium, Cobalt, Manganese, Molybdenum, Phosphorus, Silicon, Sulphur, Tin, Tungsten, Vanadium	Documented In-House Method TP/1058 (FE-40D) via Spark-OES
Low Alloy Steel	Aluminium, Antimony, Arsenic, Bismuth, Boron, Calcium, Carbon, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Niobium, Phosphorus, Silicon, Sulphur, Tantalum, Tin, Titanium, Tungsten, Vanadium, Zinc, Zirconium	Documented In-House Method TP/1058 (FE-10D) via Spark-OES
Stainless Steel Duplex Stainless Steel	Aluminium, Antimony, Arsenic, Boron, Calcium, Carbon, Chromium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Niobium, Nitrogen, Phosphorus, Silicon, Sulphur, Tin, Titanium, Tungsten, Vanadium	Documented In-House Method TP/1058 (FE-30D) via Spark-OES
Nickel-Copper Alloys (Monel)	Aluminium, Carbon, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Phosphorus, Silicon, Sulphur, Tin, Titanium	Documented In-House Method TP/1058 (NI-20D) via Spark-OES

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	Metallurgical Tests (cont'd)	
Nickel-Chromium Alloys (Inconel)	Aluminium, Boron, Carbon, Chromium, Cobalt, Copper, Iron, Manganese, Molybdenum, Niobium, Nitrogen, Phosphorus, Silicon, Sulphur, Tantalum, Titanium, Vanadium	Documented In-House Method TP/1058 (NI-40D) via Spark-OES
Copper Alloys	Aluminium, Antimony, Arsenic, Bismuth, Boron, Cadmium, Carbon, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Nickel, Phosphorus, Silicon, Silver, Sulphur, Tin, Zinc, Zirconium	Documented In-House Method TP/1058 (CU-01D) via Spark-OES
Titanium Alloys	Aluminium, Carbon, Chromium, Copper, Iron, Manganese, Molybdenum, Nickel, Niobium, Silicon, Tin, Vanadium, Yttrium, Titanium	Documented In-House Method TP/1058 (TI-30D) via Spark-OES
Ferrous and Non-ferrous metals and alloys	Carbon/Sulphur Analysis	Documented In House Method TP-1080 via IR absorption using a LECO CS744 analyser
	Oxygen/Nitrogen Analysis	Documented In House Method TP 1079 via thermal conductivity (Nitrogen) and IR absorption (Oxygen) using a LECO ON736 analyser
	Hydrogen Analysis	Documented in-house method TP-1052a via IR absorption using LECO H836 analyser
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