

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4444 Accredited to ISO/IEC 17025:2017	SGS United Kingdom Limited	
	Issue No: 028	Issue date: 08 December 2021
	Eden House Watling Street Industrial Estate Leadgate Consett County Durham DH8 6TA	Contact: Anne-Louise Farrar Tel: +44 (0)151 350 6621 E-Mail: anne-louise.farrar@sgs.com Website: www.sgs.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Location Address Eden House Watling Street Industrial Estate Consett County Durham DH8 6TA	Local contact Mr R L Hannant Tel: +44 (0)1207 599260 Email: bob.hannant@sgs.com	Metals & Weldments - Chemical tests Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests
Location Address Unit 13 Guinness Road Trafford Park Manchester M17 1SB	Local contact Mr C Booth Tel: + 44 (0)1618 737662 Email : christian.booth@sgs.com	Organic Coatings and Paints

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Commercial and industrial premises and sites	Categorisation of alloys (Positive Material Identification)	C&I



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DETAIL OF ACCREDITATION

SGS United Kingdom Limited, UKAS reference 4444, is accredited for a flexible scope that enables them to conduct accredited testing through the update of currently accredited test methods to the latest versions of those test methods, and to technically equivalent test methods, for the activities detailed below, in accordance with their documented in-house procedure ADM 030: – Flexible Scope

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS	<u>Chemical Tests</u>		
Plain carbon and low alloy steels	Elemental analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Al _{sol} , Cu, Nb, Ti, V, Sn, Ca, B, W, N ₂	Documented In-House Method ITP Chem 001 using Optical Emission Spectrometry	CON
Duplex and stainless steels	Elemental analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, Nb, Ti, V, W, N ₂	Documented In-House Method ITP Chem 001 using Optical Emission Spectrometry	CON
Nickel Alloys Inconel 718	Elemental analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Nb, Ti, Fe, B, N	Documented In-House Method ITP Chem 001 using Optical Emission Spectrometry	CON
Inconel 625	C, Si, Mn, P, S, Cr, Mo, Al, Co, Cu, Nb, Ti, Fe, B		
Steel, stainless steel, Nickel alloys, Titanium alloys, Cobalt alloys, Copper alloys and Aluminium alloys	Categorisation of alloys (Positive Material Identification)	Documented In-House Method ITP Chem 002	CON, C&I
	<u>Corrosion Tests</u>		
Stainless steels	Susceptibility to Intergranular attack	ASTM A262 Practice E & C	CON
	Susceptibility to Intergranular Corrosion	ASTM G28 Method A	CON
	Pitting Corrosion resistance	ASTM G48 Method A	CON,
	Corrosion test in Sulphuric acid	BS EN ISO 3651-2	CON
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438 ASTM E290	CON



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)		
	Ring Flattening	API Spec 5L BS EN ISO 8492 ASTM A106/A106M ASTM A370 ASTM A530/530M ASTM A999	CON
	Ring Expansion	ASTM A513/A513M BS EN ISO 8493	CON
	Hardness:		
	Brinell (HB 10/3000)	BS EN ISO 6506-1 ASTM E10	CON
	Rockwell (B&C Scale)	BS EN ISO 6508-1 ASTM E18	CON
	Vickers (HV5, 10 & 30)	BS EN ISO 6507-1 ASTM E92	CON
	Vickers – Micro (HV0.2)	BS EN ISO 6507-1 ASTM E384	CON
Impact:			
Charpy at -196°C and -120°C and from ambient to 135°C including % shear and lateral expansion	BS EN ISO 148-1 ASTM A370 ASTM E23 ASTM A923 Method B	CON	



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical and Metallurgical Tests</u>		
	Impact: (cont'd)		
	Izod	BS 131:Part 1	CON
	Tensile		
	(Forces from 2kN to 600 kN) (Ambient temperature)	BS EN ISO 6892-1 BS EN 2002-1 ASTM A370 ASTM E8/E8M API Spec 5L ASTM B557M-15	CON
	(Forces from 2kN to 600 kN) (Temperatures ambient to 800°C)	BS EN ISO 6892-2 BS EN 2002-2 ASTM E21	CON
	Fracture Toughness:		
	CTOD and K1c (in the temperature range -196°C to ambient, single edge notch geometry)	BS 7448-1 ASTM E1290 (withdrawn)	CON
	<u>Metallurgical Tests:</u>		
Steels	Average Grain size	ASTM E112 BS EN ISO 643	CON



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical and Metallurgical Tests (cont'd)</u>		
	Volume fraction	ASTM E562	CON
	Austenite Spacing	ASTM E112 Documented In-House Method ITP MET 003	CON
	Inclusion Content	ASTM E45 Methods A & D	CON
	Micros Structure Assessment	ASTM A923 (Method A)	CON
	Ferrite determination (Automatic Image Analysis)	ASTM E1245	CON
Weldments	Tests designated in specified welding codes as detailed below: Bend, Fracture, Hardness, Impact, Tensile, and Macro-Micro examination in accordance with specific welding codes	BS EN 287-1 (withdrawn) BS EN ISO 9016 BS EN ISO 5178 BS EN ISO 4136 BS EN ISO 5173 BS 4515-1 BS EN ISO 17637 BS EN ISO 9015-1 BS EN ISO 9017 BS EN ISO 17639 BS EN ISO 9606-1 BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS EN ISO 15614-6 BS EN ISO 15614-8 ASME IX API Spec 5L AWS B4.0M AWS D1.1/D1.1.M BS EN ISO 5817 ASTM E190-92	CON
	Fracture toughness testing (CTOD) of weldments, single edge notch geometry (-196°C to ambient)	BS EN ISO 15653	CON



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COATINGS AND PAINTS	<u>Physical and Mechanical Tests</u>		
	Exposure of Coatings to Accelerated Weathering	ASTM G154 BS EN ISO 11507 (withdrawn) BS EN ISO 16474-3	GUI
	Cathodic Disbondment of Coatings (Temperatures ambient to 100°C)	BS 3900 Part F11 T/SP/CW/6 BS EN 10289 Annex E ISO 21809-1 Annex H ISO 21809-2 ISO 21809-3 ISO 21809-4 ISO 15711 EN 10329 ASTM G42 ASTM G8 ASTM G95 NACE SP0394 WIS 4-52-01 CSA Z245.20 Series 14	GUI
	Coating Thickness	ASTM D7091 BS EN 10289	GUI
	Holiday Detection	T/SP/CW/6	GUI
	Strain Polarization	DIHTM-COAT023	GUI
	Determination of the level of Adhesion using the Vee Cut Method	WIS 4-52-01 T/SP/CW/6 BS EN 10289	GUI
	Hot Water Immersion	WIS 4-52-01 T/SP/CW/6 BS EN 10289	GUI
	Pull Off Testing	ASTM D4541 BS EN ISO 4624 Coat 011	GUI
Salt Spray Testing	ASTM B117 BS EN ISO 9227 BS EN ISO 7253 (withdrawn)	GUI	



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COATINGS AND PAINTS (cont'd)	<u>Physical and Mechanical Tests</u> (cont'd)		
	Flexibility Testing	T/PS/CW/6 WIS 4-52-01	GUI
	Specific Electrical Insulation Resistance	BS EN 10290 Annex F	GUI
	Indentation Evaluation	BS EN 10290 Annex H	GUI
END			