

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>SGS MIS Testing Limited</h3>	
	Issue No: 018	Issue date: 21 November 2016
	Eden House Watling Street Industrial Estate Leadgate Consett County Durham DH8 6TA	Contact: Mr R L Hannant Tel: +44 (0)1207 599260 Fax: +44 (0)1207 501507 E-Mail: info@mistesting.co.uk Website: www.mistesting.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 Fax: +44 (0)1207 501507 Email: sales.consett@mistesting.co.uk	Metals & Weldments - Chemical tests Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests	CON
Location Address Unit 2 Western Access Kestrel Road Trafford Park Manchester M17 1SF Local contact Mr J Wallace Tel: + 44 (0)1618 737662 Fax: + 44 (0)1618 733547 Email: sales.manchester@mistesting.co.uk	Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Organic Coatings and Paints	MAN
Location Address Barton Road Business Park Barton Under Needwood Staffordshire DE13 8BX Local contact Mr A Deak Tel: + 44 (0) 7976 351192 Email: sales.manchester@mistesting.co.uk	Metals & Weldments - Corrosion tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests	BAR

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 MIS Testing 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
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, MAN, C&I
	<u>Corrosion Tests</u>		
Stainless steels	Susceptibility to Intergranular attack	ASTM A262 Practice E & C	CON, MAN
	Susceptibility to Intergranular Corrosion	ASTM G28	CON, MAN, BAR
	Pitting Corrosion resistance	ASTM G48 Method A ASTM A923 Method C	CON, MAN, BAR
Steels	Resistance to Hydrogen Induced Cracking	NACE TM0284	MAN
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438 ASTM E290	CON, MAN
	Ring Flattening	API Spec 5L BS EN ISO 8492 ASTM A106/A106M ASTM A370 ASTM A530/530M	CON, MAN



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)		
	Ring Expansion	ASTM A513/A513M BS EN ISO 8493	CON, MAN
	Hardness:		
	Brinell (HB 10/3000)	BS EN ISO 6506-1 ASTM E10	CON, MAN
	Brinell (HB 1/30)	BS EN ISO 6506-1 ASTM E10	MAN
	Rockwell (C Scale)	BS EN ISO 6508-1 ASTM E18	CON, MAN, BAR
	Rockwell (B Scale)	BS EN ISO 6508-1 ASTM E18	MAN
	Vickers (HV5, 10 & 30)	BS EN ISO 6507-1 ASTM E92	CON, MAN
	Vickers – Micro (HV0.1)	BS EN ISO 6507-1 ASTM E384	CON
	Vickers (HV10)	BS EN ISO 6507-1 ASTM E92	BAR
	Impact:		
	Charpy at -196°C and -120°C to ambient temperature including % shear and lateral expansion	BS EN ISO 148-1 ASTM A370 ASTM E23 ASTM A923 Method B	CON
	Charpy (V-notch only) Charpy at -196°C and -120°C to ambient temperature including % shear and lateral expansion	BS EN ISO 148-1 ASTM A370 ASTM E23 ASTM A923 Method B	MAN
	Charpy (V-notch only) Charpy at -196°C and -80°C to ambient temperature including % shear and lateral expansion	BS EN ISO 148-1 ASTM A370 ASTM E23 ASTM A923 Method B	BAR
Izod	BS 131:Part 1	CON, MAN	



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METALS, ALLOYS and METAL PRODUCTS (cont'd) Steels	<u>Mechanical and Metallurgical Tests</u>		
	Tensile	BS EN 2002-1	MAN
	(Forces from 2kN to 600 kN)	BS EN ISO 6892-1	CON, MAN
	(Forces from 2kN to 600 kN)	ASTM A370 ASTM E8/E8M API Spec 5L ASTM B557M-15	
	(Forces from 2kN to 600 kN)	BS EN ISO 6892-1 ASTM A370 ASTM E8/E8M ASTM B557M-15	BAR
	(Forces from 2kN to 600 kN) (Temperatures ambient to 800°C)	BS EN ISO 6892-2 ASTM E21	CON, MAN
	Fracture Toughness:		
	CTOD (in the temperature range -50°C to ambient, single edge notch geometry)	BS 7448-1 ASTM E1290	CON
	<u>Metallurgical Tests:</u>		
	Average Grain size	ASTM E112 BS EN ISO 643	CON, MAN
Volume fraction	ASTM E562	CON, MAN, BAR	
Austenite Spacing	DNV RP F112	MAN, CON, BAR	
Inclusion Content	ASTM E45 Methods A & D	CON	
Micros Structure Assessment	ASTM A923 (Method A)	CON, MAN, BAR	
Ferrite determination (Automatic Image Analysis)	ASTM E1245	MAN	



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METALS, ALLOYS and METAL PRODUCTS (cont'd) Weldments	<u>Mechanical and Metallurgical Tests</u> (cont'd) Tests designated in specified welding codes as detailed below: Bend, Fracture, Hardness, Impact, Tensile, Visual and Macro-Micro examination in accordance with specific welding codes	BS EN 287-1 BS EN ISO 9016 BS EN ISO 5178 BS EN ISO 4136 BS EN ISO 5173 BS EN ISO 17637 BS EN ISO 9015-1 BS EB 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& MAN
	Fracture toughness testing (CTOD) of weldments, single edge notch geometry (-50°C to ambient)	BS EN ISO 15653	CON
COATINGS AND PAINTS	<u>Physical and Mechanical Tests</u> Exposure of Coatings to Accelerated Weathering	ASTM G154 BS EN ISO 11507	MAN



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COATINGS AND PAINTS (cont'd)	<u>Physical and Mechanical Tests</u> (cont'd)		
	Cathodic Disbondment of Coatings (Temperatures ambient to 100°C)	BS 3900 Part F11 T/SP/CW/6 BS EN 10289 ASTM G42 ASTM G8-96 WIS 4-52-01	MAN
	Coating Thickness	ASTM D7091 BS EN 10289	MAN
	Holiday Detection	WIS-4-52-01 T/SP/CW/6	MAN
	Strain Polarization	DIHTM-COAT023	MAN
	Determination of the level of Adhesion using the Vee Cut Method	WIS 4-52-01 T/SP/CW/6 BS EN 10289	MAN
	Hot Water Immersion	WIS 4-52-01 T/SP/CW/6 BS EN 10289	MAN
	Pull Off Testing	ASTM D4541 BS EN ISO 4624 Coat 011	MAN
	Salt Spray Testing	ASTM B117 BS EN ISO 9227	MAN
Flexibility Testing	T/PS/CW/6 WIS 4-52-01	MAN	
END			