

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS TESTING 7858 Accredited to ISO/IEC 17025:2017	Metaltech Services Limited	
	Issue No: 019 Issue date: 28 May 2021	
	Unit BT1/433 Station Approach Team Valley Trading Estate Gateshead NE11 0ZF United Kingdom	Contact: Louise Scott Tel: +44(0)191 3726942 E-Mail: ls@msl-ltd.com Website: www.msl-ltd.com
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Unit BT1/433 Station Approach Team Valley Trading Estate GATESHEAD NE11 0ZF United Kingdom Local contact Contact: Louise Scott Tel: +44(0)191 3726942 E-Mail: ls@msl-ltd.com	Metals & Weldments - Chemical tests Metals & Weldments - Corrosion tests Metals & Weldments – Mechanical tests Metals & Weldments - Metallurgical tests	GAT

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

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 Analysis</u>		
Stainless Steels	Elemental analysis Elements C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, V, Nb, Co, & W	Documented In-House Method TEINST 19 using Optical Emission Spectrometry	GAT
Low Alloy Carbon Steels	Elemental analysis <u>Elements</u> C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, V, Nb, & B	Documented In-House Method TEINST 19 using Optical Emission Spectrometry	GAT
Steel, stainless steel, Nickel alloys, Titanium alloys, Cobalt alloys, Copper alloys and Aluminium alloys	Categorisation of alloys (Positive Material Identification)	Documented In-House Method TEINST 20 using XRF Niton X1.2 Analyser	GAT C&I
	<u>Corrosion Tests</u>		
Stainless Steels	<u>Susceptibility to Intergranular Corrosion</u>	ASTM A262-15 Method B	GAT
	<u>Pitting Corrosion resistance</u>	ASTM G48-11 (2020)e1 Method A	GAT
			GAT
Nickel alloys	<u>Susceptibility to Intergranular Corrosion</u>	ASTM G28-02 (2015) Method B	
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438:2020 ASTM E290-14 ASTM A370-20	GAT



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)		
	<u>Hardness:</u>		
	Brinell (HB 10/3000)	BS EN ISO 6506-1:2014 ASTM E10-18	GAT
	Rockwell (C Scale)	BS EN ISO 6508-1:2016 ASTM E18-20	GAT
	Vickers (HV5 & 10)	BS EN ISO 6507-1:2018 ASTM E92-17	GAT
	Vickers Micro / Low force (HV0.5)	BS EN ISO 6507-1:2018 ASTM E384-17	GAT
	<u>Impact:</u>		
	Charpy at -80°C to ambient temperature	ASTM E23- 18 ASTM A370-20 BS EN ISO 148-1:2016	GAT
	Izod	BS 131-1: 1961 (2007)	GAT
	<u>Tensile:</u>		
	Ambient Temperature (Forces from 5kN to 1200 kN)	BS EN ISO 6892-1:2019 ASTM E8/E8M-21 ASTM A370-20	GAT
Temperatures ambient to 300° C (Forces from 2kN to 600 kN)	BS EN ISO 6892-2 2018 (Method B) ASTM E21-17e1	GAT	
<u>Metallurgical Tests:</u>			
Grain size (by comparison and intercept methods)	ASTM E112-13 BS EN ISO 643:2020	GAT	
Volume fraction	ASTM E562-19	GAT	



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests (Cont'd):</u>		
	Graphite in Iron	ASTM A247-19 ASTM E2567-16a	GAT
	Inclusion Content	ASTM E45-18a Methods A & D	GAT
	Case Depth	BS EN ISO 2639:2002 BS EN 10328:2005	GAT
	Decarburisation (Metallographic method)	ASTM E1077-14	GAT
	Jominy (Hardenability)	BS EN ISO 642:1999 ASTM A255-20a	GAT
Weldments	Bend, Fracture, Hardness, Impact, Tensile, and Macro examination in accordance with specific welding codes	BS EN ISO 5178:2019 BS EN ISO 4136:2012 BS EN ISO 5173:2010+A1:2011 BS EN ISO 5817 :2014 BS EN ISO 9015-1:2011 BS EN ISO 9016 :2012 BS EN ISO 9017:2018 BS EN ISO 17639:2013 BS EN ISO 9606-1:2017 BS EN ISO 15614-1: 2017 +A1 :2019 ASME IX:2019 API 1104 21 st Edition with errata 5 AWS D1.1/D1.1M:2020	GAT
END			