

# 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>	<b>Metaltech Services Limited</b> Issue No: 013 Issue date: 06 June 2019	
	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@metaltech.co.uk 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		
<table border="0"> <tr> <td style="vertical-align: top;"> <b>Address</b>                      Unit BT1/433 Station Approach                      Team Valley Trading Estate                      GATESHEAD                      NE11 0ZF                      United Kingdom                 </td> <td style="vertical-align: top;"> <b>Local contact</b>                      Contact: Louise Scott                      Tel: +44(0)191 3726942                      E-Mail: ls@metaltech.co.uk                 </td> </tr> </table>	<b>Address</b> Unit BT1/433 Station Approach Team Valley Trading Estate GATESHEAD NE11 0ZF United Kingdom	<b>Local contact</b> Contact: Louise Scott Tel: +44(0)191 3726942 E-Mail: ls@metaltech.co.uk	Metals & Weldments - Chemical tests Metals & Weldments - Corrosion tests Metals & Weldments – Mechanical I tests Metals & Weldments - Metallurgical tests	GAT
<b>Address</b> Unit BT1/433 Station Approach Team Valley Trading Estate GATESHEAD NE11 0ZF United Kingdom	<b>Local contact</b> Contact: Louise Scott Tel: +44(0)191 3726942 E-Mail: ls@metaltech.co.uk			

#### 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 & 19A using Optical Emission Spectrometry	GAT
Low Alloy Carbon Steels	Elemental analysis Elements C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, V, Nb, & B	Documented In-House Method TEINST 19 & 19A 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 & 20A using XRF Niton X1.2 Analyser	GAT C&I
METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438:2016 ASTM E290-14 ASTM A370-18	GAT
	Hardness:		
	Brinell (HB 10/3000)	BS EN ISO 6506-1:2014 ASTM E10-18	GAT
	Rockwell (C Scale)	BS EN ISO 6508-1:2016 ASTM E18-19	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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd) Impact: Charpy at -80°C to ambient temperature Izod Tensile: Ambient Temperature (Forces from 5kN to 1200 kN) Grain size (by comparison and intercept methods) Volume fraction	ASTM E23- 18 ASTM A370-18 BS EN ISO 148-1:2016 BS 131-1: 1961 (2007) BS EN ISO 6892-1:2016 ASTM E8/E8M-16a ASTM A370-18 ASTM E112-13 BS EN ISO 643:2012 ASTM E562-11	GAT GAT GAT GAT GAT GAT
METALS, ALLOYS and METAL PRODUCTS	<u>Metallurgical Tests:</u> Graphite in Iron Inclusion Content Case Depth Decarburisation (Metallographic method) Jominy (Hardenability)	ASTM A247-19 ASTM E2567-16a ASTM E45-18a Methods A & D BS EN ISO 2639:2002 BS EN 10328:2005 BS 6286:1982 ASTM E1077-14 BS EN ISO 642:1999 ASTM A255-10(2018)	GAT GAT GAT GAT GAT



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METALS, ALLOYS and METAL PRODUCTS (cont'd)  Weldments	<u>Metallurgical Tests:(cont'd)</u>  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 ASME IX:2017 API 1104 21 <sup>st</sup> Edition with errata 5 AWS D1.1/D1.1M:2015	GAT
END			