

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1611</b> Accredited to ISO/IEC 17025:2017	<b>Advanced Metallurgical Services Ltd</b>	
	Issue No: 033 Issue date: 30 May 2023	
	<b>Unit 8C Broadgate</b> Oldham Broadway Business Park Chadderton Oldham OL9 9XA United Kingdom	<b>Contact: Mr Syed Ahmad</b> Tel: +44 (0)1706-882891 E-Mail: syed.ahmad@amstesting.co.uk Website: www.amstesting.co.uk

**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
Unit 8C Broadgate Oldham Broadway Business Park Chadderton Oldham OL9 9XA United Kingdom  <b>Local contact:</b> Mr Alex Tousias Tel: +44 (0)1706-882891 E-Mail: alex.tousias@amstesting.co.uk	Mechanical testing Metallurgical evaluation Elemental analysis Corrosion testing Positive material identification (XRF)	A

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Suitable customer premises  <b>Local contact:</b> Mr Alex Tousias Tel: +44 (0)1706-882891 E-Mail: alex.tousias@amstesting.co.uk	Positive Material Identification	B



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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
<b>METALS, ALLOYS and METAL PRODUCTS</b>	<u>Chemical Tests</u>		
Plain carbon and low alloy steels	Elemental Analysis C, Si, Mn, P, S, Cr, Ni, Al, B, Cu, Mo, N, V, Nb, Ti, Fe	Documented In-House Method AMS-6QP3-007 using Optical Emission Spectroscopy techniques	A
Stainless Steels	Elemental Analysis C, Si, Mn, P, S, Cr, Mo, Ni, Ti, Co, Cu, Nb, V, As, B, N, W	Documented In-House Method AMS-6QP3-007 using Optical Emission Spectroscopy techniques	A
Stainless steel Duplex Stainless steel	<u>Categorisation of alloys</u>  Positive Material Identification (PMI)	Documented In-House Method AMS-6QP3-027 using handheld XRF analyser	A + B
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438:2020	A
	Vickers Hardness (HV5, HV10, HV30)	BS EN ISO 6507-1:2018 ASTM E92-17	A
	Brinell Hardness (HBW 1/30 and HBW 10/3000)	BS EN ISO 6506-1:2014 ASTM E10-18 ASTM A370-22	A
	Rockwell Hardness (HRC, HRB)	BS EN ISO 6508-1:2016 ASTM E18-22 ASTM A370-22	A
	Impact: Charpy (temperatures from -196 °C and -120 °C to ambient)	BS EN ISO 148-1:2016 ASTM E23-23a ASTM A370-22 ASTM A923-14 (Method B)	A



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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)		
	Tensile (Ambient temperature) (forces from 4 kN to 1000 kN)	BS EN ISO 6892-1:2019 ASTM E8/E8M-22 ASTM A370-22 ASTM B557M-15	A
	Tensile (Elevated Temperature) Ambient to 200 °C (forces from 1.5 kN to 150 kN)	BS EN ISO 6892-2:2018 ASTM E21-20	A
	Through thickness tensile	BS EN 10164:2018	A
	Ring flattening	BS EN ISO 8492:2013 ASTM A370-22 ASTM A106/A106M-19a ASTM A530/A530M-18 ASTM A999-18 API 5L 46 <sup>th</sup> Edition	A
	Ring expansion	BS EN ISO 8493:2004 ASTM A370-22 ASTM A513/A513M-20a	A
Weldments	Tests designated in specified Welding Codes as detailed below: Bend, Fracture, Hardness, Impact, Tensile, Macro examination and Visual Inspection	BS EN ISO 9606-1 :2017 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2017+A1:2019 BS EN ISO 15614-2:2005 BS EN ISO 15614-5:2004 BS EN ISO 15614-6:2006 BS EN ISO 15614-7:2019 BS EN ISO 15614-8:2016 BS EN ISO 9016:2022 BS EN ISO 9017:2018 BS EN ISO 5178:2019 BS EN ISO 4136:2022 BS EN ISO 5173:2010+A1:2011 BS EN ISO 5817:2014 BS EN ISO 9015-1:2011 BS EN ISO 17637:2016 BS EN ISO 17639:2022 ASME BPVC IX - 2021 AWS D1.1/D1.1M (24th Edition)	A



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u>		
C Steel, Stainless steel	Average Grain Size (by comparison method)	BS EN ISO 643:2020 ASTM E112-13(2021)	A
	Inclusion Content	ASTM E45-18a (Methods A & D)	A
	Volume Fraction (manual point count)	ASTM E562-19 <sup>e1</sup>	A
	Ferrite Determination (Automatic image analysis)	ASTM E1245-03 (16)	A
	Austenite Spacing	DNV RP F112 Sept 2021 ASTM E112-13(2021)	A
Duplex Austenitic/Ferritic Stainless Steel	Detection of Detrimental Intermetallic Phase	ASTM A923-22 (Method A) Documented In-House Method AMS-6QP3 024 Appendix A	A
Carbon steel alloys, Stainless steel alloys, Aluminium alloys, Nickel alloys and Copper alloys	Microstructural assessment	Documented In-House Method AMS-6QP3 024	A
	<u>Corrosion Tests</u>		
Austenitic Stainless steel	Resistance to Intergranular Corrosion Resistance/attack	ASTM A262-15(21) Practice B, C and E BS EN ISO 3651-1:1998 BS EN ISO 3651-2:1998 Method A	A
Stainless Steel and Nickel-Rich Chromium Bearing Alloys	Pitting and Crevice Corrosion Resistance	ASTM G48-11(2020) <sup>e1</sup> Method A	A
Nickel-Rich Chromium Bearing Alloys	Resistance to Intergranular Corrosion Resistance	ASTM G28-22 Method A	A
Duplex Stainless Steel	Pitting and Crevice Corrosion Resistance (Detection of detrimental intermetallic phase)	ASTM A923-22 (Method C)	A
END			