

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS TESTING 1930 Accredited to ISO/IEC 17025:2017	Smiths Metal Centres Ltd Issue No: 027 Issue date: 16 May 2022	
	Unit 0 Stratton Business Park London Road Biggleswade SG18 8QB	Contact: Mr S Dawson Tel: +44 (0)1767 604675 Fax: +44 (0)1767 315340 E-Mail: dawsons@smithmetal.com Website: www.smithmetal.com
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 Unit 0 Stratton Business Park London Road Biggleswade SG18 8QB	Local contact Mr S Dawson Tel: +44 (0)1767 604675 E-Mail: dawsons@smithmetal.com	METAL, ALLOYS and METAL PRODUCTS Chemical Tests Mechanical Tests Metallurgical Tests	Main Lab
Location Address Unit 3 Juno Place Stratton Business Park London Road Biggleswade SG18 8QB	Local contact	METAL, ALLOYS and METAL PRODUCTS Categorisation of alloys (Positive Material Identification)	Unit 3



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location
METAL, ALLOYS and METAL PRODUCTS	<u>Chemical Tests</u>		
	Quantitative elemental analysis	Documented In-House Method CA using SpectroMaxx Optical Emission Spectrometer	Main Lab
Aluminium and aluminium alloys	Si, Mn,Cr, Ni, Cu, Sn, Pb, Fe, Zn, Co, Mg, Ti, Al, Ag B Be Bi Ca Cd Ga Li Na P Sb Sr V Zr		
Copper and copper alloys	Si, Mn, Cr, Ni, Al, Sn, Pb, Fe, Zn, Co, Mg, Cu, As P Sb S Ag Au Se Te Cd Nb C Be B Mg		
Nickel and Nickel alloys	Si, Mn, Al, Cr, Mo, Fe, Cu, Ti, Co, V, W, Nb, Ni, N, C S P Mg B Zr Pb Ta Sn		
Plain Carbon, low alloy and stainless steels	C, Mn, Si, S, P, Cr, Ni, Mo, Cu, Nb, V, W, Ti, Al, Co, Sn As Zn N B Cu Pb Sb Fe		
Titanium alloys	Si, Cr, Mo, Al, Cu, Fe, V, Zr, Sn, Ti, Ni C Nb		
Aluminium alloys	Categorisation of alloys (Positive Material Identification)	Documented in house method SMC_XRF_1 Olympus Vanta handheld XRF Analyser	Main Lab
Copper Alloys			Unit 3
Nickel Alloys			
Plain Carbon, low alloy and stainless steels			
Titanium Alloys			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location
	<u>Mechanical Tests</u> Hardness: Rockwell (B, C scale) Vickers (HV10, 30)	BS EN ISO 6508-1:2016 ASTM E18-20 BS EN ISO 6507-1:2018 ASTM E92-17	Main Lab Main Lab



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)		
	Brinell (HBW 10/3000)	BS EN ISO 6506-1:2014 ASTM E10-18	Main Lab
	Impact Charpy V notch including % shear and lateral expansion	ASTM E23:18 ASTM A370:20	Main Lab
Weldments	Macro/micro-examination, hardness	BS EN 287:Part 1:2011 (withdrawn) BS EN ISO 9606-1:17 BS EN ISO 15614-1:2017+A1:2019 BS EN ISO 17639:2013 BS EN ISO 9015-1:2011	Main Lab
	<u>Tensile</u>		
	Ambient (Forces 3 kN to 300 kN)	ASTM A370-20 ASTM E8/E8M 16ae1 ASTM B557-15 BS EN ISO 6892-1 :2019 (Method A & B) BS EN 2002-1 :2005	Main Lab
	Elevated (up to 200°C) (Forces 3 kN to 300 kN)	ASTM E21 :20 BS EN ISO 6892-2:2018	Main Lab
Stainless steels	Pitting corrosion resistance	ASTM G48-2020e1 Method A	Main Lab
METAL, ALLOYS and METAL PRODUCTS	<u>Metallographic Tests</u>		
	Grain Size	ASTM E112:13	Main Lab
	Volume Fraction	ASTM E562:19e1	Main Lab
	Ferrite Content	DIHM PD1 Rev 5 using Feritescope.	Main Lab
	Conductivity Test	DIHM COND Rev 0	Main Lab



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	Metallographic Tests (cont'd)		
	Magnetic Permeability	DIHM PD 4 Rev 0	Main Lab
Duplex Stainless Steel	Detrimental Intermetallic Phases	ASTM A923-14 Method A ASTM A923-14 Method C	Main Lab
END			