

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO/IEC 17025:2017</b>	<b>Metals Technology (Testing) Limited</b>	
	<b>Issue No: 044    Issue date: 29 July 2024</b>	
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<b>Testing performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>METALS, ALLOYS and METAL PRODUCTS</b>	<u>Chemical Analysis</u>	
Ferrous and Non-ferrous alloys including:	<u>Elemental Analysis</u>	Documented In-House Methods using direct reading emission spectroscopy (OES)
Stainless Steel	C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Co, Nb, Pb, Sn, Ti, V, W, N, Ta	OES Procedure 113 Rev 3
Manganese Steel	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Nb, Ti, V, Sn, N	OES Procedure 113 Rev 3
Tool Steel	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Ti, V, W, Sn As	OES Procedure 113 Rev 3
Low Alloy Steel	C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Co, Nb, Sn, Ti, V, W, N, Ca, Zr, Sb, Pb	OES Procedure 113 Rev 3
Free Cutting Steel	C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, Co, V, W, N	OES Procedure 113 Rev 3
Cast Irons	C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, As, B, Bi, Ca, Ce, Co, Mg, Nb, Pb, Sb, Se, Sn, Ti, V, W, Zn, Zr	OES Procedure 113 Rev 3
Chrome Hard Alloyed Irons	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Ti, V	OES Procedure 113 Rev 3
Ni-Resist Alloyed Irons	C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Nb, Mg, Ce	OES Procedure 113 Rev 3
Nickel Based Alloys	C, Si, Mn, P, S, Cr, Fe, Mo, V, Cu, W, Co, Nb, Al, Ti, Zr, B, Ni	OES Procedure 113 Rev 3



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Elemental Analysis</u>	
Cobalt Alloys	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, Fe, Nb, W, Co	OES Procedure 113 Rev 3
Copper Based Alloys	Sn, Zn, Fe, Ni, Al, Si, As, Mn, Bi, Sb, P, Cr, S, Mg, Pb, Co, Ag, C, Cu	OES Procedure 113 Rev 3
Aluminium Alloys	Cu, Mg, Si, Fe, Mn, Ni, Zn, Pb, Sn, Ti, Cr, Zr, Al	OES Procedure 113 Rev 3
Ferrous and Non-ferrous metals and alloys	<u>Mechanical Tests</u>	
	Tensile (ambient temperature) (forces 1 kN to 500 kN)	BS EN ISO 6892-1: 2019 ASTM E8/E8M-24 ASTM A370-24
	Tensile (temperatures up to 650°C) (forces 10 kN to 500 kN)	BS EN ISO 6892-2:2018 ASTM E21-20
	Impact: Charpy 'V' & 'U' notch (-196°C and -80°C to ambient) Lateral expansion and % Shear	BS EN ISO 148-1:2016 ASTM E23-24 ASTM A370-24 ASTM A923-23 Method B
	Izod	BS 131:Part 1:1961(Incorporating Amendments Nos. 1 & 2)
	Bend	BS EN ISO 7438:2020



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METALS, ALLOYS and METAL PRODUCTS (cont'd)  Ferrous and Non-ferrous metals and alloys (cont'd)	<u>Mechanical Tests</u> (cont'd)  Hardness:  Brinell HBW (10/3000)  Rockwell (B & C)  Vickers (HV10 & HV30)  <u>Metallurgical Tests</u>  Grain size (Comparison & Linear Intercept Methods)  Decarburisation depth by microscopical methods  Inclusion content  Macro-etch examination  Sulphur print  Sodium Hydroxide Etch Test  Volume fraction  <u>Corrosion Tests</u>  Pitting and crevice corrosion resistance  Intracrystalline corrosion	BS EN ISO 6506-1:2014 ASTM E10-23 ASTM A370-24  BS EN ISO 6508-1:2023 ASTM E18-24 ASTM A370-24  BS EN ISO 6507-1:2023  ASTM E112-24 BS EN ISO 643:2020 ASTM E1181-02(2023) ASTM E930-18  ASTM E1077-14(2021)  ASTM E45-18a (23) ISO 4967:2013  ASTM E381-22 ASTM A604/A604M-07(2022) API 6ACRA 1 <sup>st</sup> Edition (Add 3)  ASTM E1180-08(2021)  ASTM A923-23 Method A  ASTM E562-19e1  ASTM G48-11(2020)e1 (Methods A & B)  ASTM A262-15(2021) Methods A, B , C & E
Stainless Steels		



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Corrosion Tests</u> (cont'd)	
Stainless Steels (cont'd)	Detecting Detrimental Intermetallic Phases (Duplex stainless steels)	ASTM A923-23, Method C
	Intercrystalline corrosion	BS EN ISO 3651-1:1998 BS EN ISO 3651-2:1998 Method A, B & C
Nickel Alloys	Intercrystalline corrosion	BS EN ISO 9400:1996 Method A, B, C and D ASTM G28-22 Method A
FERROUS and NON-FERROUS CASTINGS, FORGINGS, PLATE, WELDMENTS	Mechanical and Metallurgical Tests	
	Tests designated in specified welding codes as detailed below: Bend, Hardness, Impact, Tensile, Macro-examination	BS EN ISO 17637:2016 BS EN ISO 17639:2022 BS EN ISO 4136:2022 BS EN ISO 5173:2023 BS EN ISO 5178:2019 BS EN ISO 9015-1:2011 BS EN ISO 9016:2022 BS 4872-1:1982 BS 4872-2:1976 BS EN ISO 9606-1:2017 BS EN ISO 15614-1:2017+A1:2019 ASME IX:2023
END		