

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4277 Accredited to ISO/IEC 17025:2017	Metal Testing UK (A Division of Abbey Forged Products Ltd) Issue No: 031 Issue date: 15 July 2024	
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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u>	
	Tensile test (ambient to 700°C) (Forces 10kN to 250kN)	BS EN ISO 6892-1:2019 BS EN 6892-2:2018 (Method B) ASTM E8/E8M-24 ASTM E21-20 ASTM A370-24
	<u>Impact</u>	
	Charpy (V Notch) (-196°C to ambient temperature) Including crystallinity/shear & lateral expansion	BS EN ISO 148-1:2016 ASTM E23-23a ASTM A370-24 ASTM A923-23(Method B)
	<u>Hardness</u>	
	Brinell (10/3000 HBW)	BS EN ISO 6506-1:2014 ASTM E10-23
	Rockwell (B & C Scales)	BS EN ISO 6508-1:2023 ASTM E18-22
	Vickers (HV10 & HV30)	BS EN ISO 6507-1:2023 ASTM E92-23
	<u>Corrosion</u>	
	Resistance to pitting corrosion	ASTM G48-11(2020) (Method A)
	Inter-granular corrosion	ASTM A262-15 Practice E(2021) ASTM G28- 22 Method A BS EN ISO 3651-2:1998 Method A
	Detecting detrimental Intermetallic phases (Duplex stainless steels)	ASTM A923-23 (Method C)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallography</u> Average Grain size (comparison method) Inclusion content (Methods A & D) Volume fraction Macro examination Micro structure assessment Detecting detrimental Intermetallic phases (Duplex stainless steels) <u>Chemical Tests</u>	ASTM E112-13(2021) BS EN ISO 643:2020 ASTM E45-18a ASTM E562-19 ASTM E381-22 ASTM A604/604M-07(2022) API 6A718 2 nd Edition API 6ACRA 2015 Add3 Err3 Documented in-house method QAP 023 API 6A718 2 nd Edition API 6ACRA 2015 Add3 Err3 ASTM A923-23 (Method A)
Stainless Steels, Duplex Steels and Low Alloy Steels	Determination of Nitrogen	Documented in-house method QAP 041 using Inert gas fusion techniques
Ferrous and Non-ferrous Alloys including: Low Alloy Steels	<u>Elemental analysis</u> C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Nb, Ti, V, W, Pb, Sn, As, Ca, Sb, Ta, B, Fe, Zr	Documented in-house method QAP 045 using spark source Optical Emission Spectroscopy
Duplex/Stainless Steels	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Nb, Ti, V, W, Pb, Sn, As, Ca, B, Fe	
Nickel Alloys	C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Nb, Ti, V, W, Sn, B, Fe, Ta, Mg	
END		