

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0281

Accredited to
ISO/IEC 17025:2017

Special Metals Wiggin Ltd trading as IncoTest

Issue No: 052 Issue date: 27 March 2025

A Division of Special Metals
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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 METALLIC PRODUCTS	<u>Mechanical Tests</u>	
	Bend :	BS EN ISO 7438 :2020
	Creep and Stress Rupture:	
	Creep (temperature range ambient to 1100°C))	BS EN 2002-005 :2007 BS EN ISO 204 :2023 ASTM E139-11(2018)
	Stress Rupture (temperature range ambient to 1200°C)	BS EN 2002-005 :2007 BS EN ISO 204 :2023 ASTM E139-11(2018) ASTM E292-24
	Coefficient of linear expansion	Documented In-house Method 66-6801 based on ASTM E228-22
	Hardness:	
	Vickers (HV5, 10 & 30)	BS EN ISO 6507-1:2023 ASTM E92-23
Brinell (HB10/3000 and 2.5/187.5)	BS EN ISO 6506-1:2014 ASTM E10-23	
Rockwell (B and C scales only)	BS EN ISO 6508-1:2023 ASTM E18-24	



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<p>METALS, ALLOYS and METALLIC PRODUCTS (cont'd)</p>	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Impact :</p> <p>Charpy (V- and U- notches) (temperature range -60°C to 400°C and -196 °C and -80 °C (-78.5 °C) dry ice sublimation temperature)</p> <p>Tensile (ambient temperature)</p> <p>Tensile (temperature range ambient to 1000°C) (Forces up to 600 kN)</p> <p>Tensile (temperature range -80°C to ambient and -196 °C) (Forces up to 600 kN)</p> <p><u>Physical Tests</u></p> <p>Dynamic Young's Modulus of Elasticity at ambient temperature</p> <p>Metallurgical Tests</p> <p>Non-metallic inclusions</p> <p>Grain size</p>	<p>BS EN ISO 148-1:2016 ASTM E23-24</p> <p>BS EN ISO 6892-1:2019 BS EN 2002-1:2005 ASTM E8/E8M-24 ASTM A370-24</p> <p>BS EN ISO 6892-2:2018 BS EN 2002-2:2005 ASTM E21-20</p> <p>Documented In-house Methods 6-6823 and 6-6824</p> <p>ASTM E1875-20a</p> <p>ASTM E45-18a(2023) ISO 4967:2013</p> <p>BS EN ISO 643:2020 ASTM E112-2024 ASTM E930-18 ASTM E1181-02 (2023)</p>



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METALS and ALLOYS	<u>Chemical Tests</u>	
Nickel Alloys (including Cupro Nickels)	Elemental Analysis Aluminium Chromium Cobalt Copper Iron Manganese Molybdenum Nickel Niobium Phosphorus Silicon Tantalum Titanium Tungsten Vanadium Zirconium	Documented in-house method SI 6-6919 using X-ray fluorescence techniques
Nickel based Alloys	Elemental Analysis Boron Calcium Magnesium Silicon	Documented in-house method SI 6-6934 using Spark Source optical emission techniques
Nickel Alloys	Elemental Analysis Antimony Arsenic Bismuth Cadmium Gallium Indium Magnesium Lead Selenium Silver Tellurium Thallium Tin Zinc	Documented in-house method SI 6-6890 using Hollow Cathode Source optical emission techniques
Nickel Alloys	Determination of Trace Elements Ag, As, B, Bi, Ca Cd, Ga, In, Mg, Pb, Se, Sb, Sn, Te, Tl, Zn.	Documented in-house method SI- 6-6896 using Glow Discharge Mass Spectrometer



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS and ALLOYS (cont'd)	<u>Chemical Tests</u> (cont'd)	
Carbon and Low Alloy Steels, Stainless Steels, Cast Irons, Cobalt Alloys, Copper Alloys, Nickel Alloys and Titanium Alloys	Determination of Carbon and Sulphur	Documented in-house method SI 6-6938 using Combustion technique with IR detection
Carbon and Low Alloy Steels, Stainless Steels, Nickel Alloys and Titanium Alloys	Determination of Hydrogen	Documented in-house method SI 6-6939 using Inert gas fusion techniques
Carbon and Low Alloy Steels, Stainless Steels, Nickel Alloys and Titanium Alloys	Determination of Oxygen and Nitrogen	Documented in-house method SI 6-6918 using Inert gas fusion techniques
	<u>Corrosion Tests</u>	
Wrought nickel rich chromium bearing alloys	Intergranular attack	ASTM G28-2022 Documented in-house procedure SI-6-7052
Austenitic stainless steels	Intergranular attack	ASTM A262-15(2021) Practice E BS EN ISO 3651-2:1998 Method A Documented in-house procedure SI-6-7051
Austenitic stainless steels	Intergranular attack	ASTM A262-15(2021) Practice C BS EN ISO 3651-1:1998 Documented in-house procedure SI-6-7050
Stainless steels and related alloys	Pitting resistance	ASTM G48-11 (2020) e1 ASTM A923-23 Method C Documented in-house procedure SI-6-7062
END		