Schedule of Accreditation

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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

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A Division of Special Metals Wiggin Ltd
Holmer Road
Hereford
HR4 9SL

Contact: Steven Collins
Tel: +44 (0)1432 382200
E-mail: steven.collins@incotest.co.uk
Website: www.incotest.co.uk

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 E139-24
	Stress Rupture (temperature range ambient to 1200°C)	BS EN 2002-005 :2007 BS EN ISO 204 :2023 ASTM E139-24 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 (HBW 10/3000 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 E18-25

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METALLIC PRODUCTS (cont'd)	Mechanical Tests (cont'd)	
	Impact :	
	Charpy (V- and U- notches) (temperature range -60ºC to 400ºC and -196 ºC and -80 ºC *(-78.5 ºC)* dry ice sublimation temperature)	BS EN ISO 148-1:2016 ASTM E23-25
	Tensile (ambient temperature)	BS EN ISO 6892-1:2019 BS EN 2002-1:2005 ASTM E8/E8M-25 ASTM A370-24a
	Tensile (temperature range ambient to 1000ºC) (Forces up to 600 kN)	BS EN ISO 6892-2:2018 BS EN 2002-2:2005 ASTM E21-20
	Tensile (temperature range -80ºC to ambient and -196 ºC) (Forces up to 600 kN)	Documented In-house Methods 6-6823 and 6-6824
	Physical Tests	
	Dynamic Young's Modulus of Elasticity at ambient temperature	ASTM E1875-20a
	Metallurgical Tests	
	Non-metallic inclusions	ASTM E45-25 ISO 4967:2013
	Grain size	BS EN ISO 643:2024 ASTM E112-25 ASTM E930-18 ASTM E1181-02 (2023)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS and ALLOYS	Chemical Tests	
Nickel Base Alloys (including Nickel - Copper Alloys)	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

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS and ALLOYS (cont'd)	Chemical Tests (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
	Corrosion Tests	
Wrought nickel rich chromium bearing alloys	Intergranular attack	ASTM G28-2024 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 G48-25 ASTM A923-25 Method C Documented in-house procedure SI-6-7062
END		