Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0142

Accredited to ISO/IEC 17025:2017

Howmet Ltd

Issue No: 038 **Issue date:** 03 August 2026

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Testing performed at the above address only

Howmet Ltd are accredited for a limited flexible scope that enables the laboratory to conduct accredited testing through Annex A1.5 of GEN 4 for the inclusion of revised standard methods for the mechanical testing activities detailed in the below schedule, in accordance with their documented in-house procedure MCLM 001 Issue 002

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
NICKEL BASE ALLOYS	<u>Chemical Tests</u> Elemental analysis Aluminium Chromium Cobalt Copper Hafnium Iron Manganese Molybdenum Nickel Niobium Palladium Phosphorus Platinum Rhenium Ruthenium Silicon Tantalum Titanium Tungsten Vanadium Yttrium Zirconium Cerium Silicon Phosphorus Boron Lanthanum Calcium Magnesium Aluminium	Documented In-House Methods from Materials Control Laboratory Manual (MCLM) using: XRFS 294 Issue 007 – 19/08/22 XRFS 298 Issue 008 -13/10/25 XRFS 298 Issue 008 -13/10/25 Spark OES 301 Issue 002 – 20/05/24

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
NICKEL BASE ALLOYS (cont'd)	Chemical Tests (cont'd) Elemental analysis (cont'd) Carbon Sulphur Nitrogen Oxygen Lithium Beryllium Magnesium Phosphorus Sulfur Chlorine Calcium Scandium Manganese Copper Zinc Gallium Germanium Arsenic Bromine Selenium Rubidium Yttrium Rhodium Palladium Silver Indium Tin Antimony Iodine Tellurium Cesium Lanthanum Cerium Praseodymium Neodymium Samarium Europium Gadolinium Terbium Dysprosium	Documented In-House Methods from Materials Control Laboratory Manual (MCLM) using: Combustion and Infra-Red Absorption 300 Issue 007 – 25/11/25 Inert Gas Fusion 299Issue 004 – 29/08/24 302 - Issue 001 – 16/04/24 Glow Discharge Mass Spectrometry 303 Issue 001 – 01/09/25

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
NICKEL BASE ALLOYS (cont'd)	Chemical Tests (cont'd) Elemental analysis (cont'd) Holmium Erbium Thulium Ytterbium Lutetium Rhenium Osmium Iridium Platinum Gold Mercury Thallium Lead Bismuth Thorium Uranium Potassium Ruthenium Cadmium	Documented In-House Methods from Materials Control Laboratory Manual (MCLM) using: Glow Discharge Mass Spectrometry 303 Issue 001 – 01/09/25

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
COBALT BASE ALLOYS	<u>Chemical Tests</u> (cont'd) Elemental analysis (cont'd) Aluminium Chromium Cobalt Copper Hafnium Iron Lanthanum Manganese Molybdenum Nickel Niobium Phosphorus Platinum Potassium Rhenium Silicon Tantalum Titanium Tungsten Vanadium Yttrium Zirconium Carbon Sulphur Nitrogen Oxygen	Documented In-House Methods from Materials Control Laboratory Manual (MCLM) using: XRFS 294 Issue 007 – 19/08/22 XRFS 298 Issue 008 -13/10/25 Combustion and Infra-Red Absorption 300 Issue 007 – 25/1125 Inert Gas Fusion 299Issue 004 – 29/08/24 302 Issue 1 - 16/04/24

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IRON BASE ALLOYS	Chemical Tests (cont'd) Elemental analysis (cont'd) Aluminium Cerium Chromium Cobalt Copper Iron Manganese Molybdenum Niobium Phosphorus Silicon Tantalum Tin Titanium Tungsten Vanadium Zirconium Carbon Sulphur Nitrogen Oxygen	Documented In-House Methods from Materials Control Laboratory Manual (MCLM) using: XRFS 294 - Issue 008 – 19/08/22 XRFS 298 Issue 008 -13/10/25 Combustion and Infra-Red Absorption 300 Issue 007 – 25/1125 Inert Gas Fusion 299 - Issue 004 – 29/08/22 302 - Issue 001 – 16/04/24

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METALS, ALLOYS AND METAL PRODUCTS	<u>Mechanical Tests</u>	
	Vickers Hardness (HV 30)	BS EN ISO 6507-1:2023ASTM E92 - 23
	Rockwell Hardness (HRC)	BS EN ISO 6508-12023 ASTM E18-25
	Stress Rupture (700°C -1050°C)	BS EN 2002-005:2007 ASTM E139-24BS EN ISO 204:2023
	Tensile tests Ambient Temperature (Range 0.1 - 50kN)	BS EN ISO 6892-1:2019 ASTM E8/E8M-2025
	Elevated Temperature (650 °C and 850 °C)	BS EN 2002-2:2005 BS EN ISO 6892-2:2018 ASTM E21-20
	Excluding the determination of Young's Modulus	
END		