Certificate of Accreditation



Howmet Ltd

Testing Laboratory No. 0142

Is accredited in accordance with International Standard ISO/IEC 17025:2017

- General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements.

Matt Gantley, Chief Executive Officer United Kingdom Accreditation Service

Initial Accreditation: 1 May 1982 Certificate Issued: 25 January 2024







Scan QR Code to verify

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

EX2 7LL

Howmet Ltd

Issue No: 037 Issue date: 20 March 2025

 Exeter Alloy
 Contact: Mr A Messenger

 Heron Road
 Tel: +44(0)1392 429760

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 Fax: +44 (0)1392 429702

Devon E-Mail: andy.messenger@howmet.com

Testing performed at the above address only

DETAIL OF ACCREDITATION

Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Chemical Tests Elemental analysis Aluminium Chromium Cobalt Copper Hafnium Iron Manganese Molybdenum Nickel Niobium Palladium Phosphorus Platinum Rhenium Ruthenium Silicon	Documented In-House Methods from Materials Control Laboratory Manual (MCLM) using: XRFS (294) XRFS (298)
Titanium Tungsten Vanadium Yttrium Zirconium Cerium Silicon Phosphorus Boron Lanthanum Calcium	XRFS (298) Spark OES (301)
	Chemical Tests 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

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Schedule of Accreditation issued by

United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Howmet Ltd

Issue No: 037 Issue date: 20 March 2025

Testing performed at main address only

Materials/Products tested mea	Type of test/Properties	Standard specifications/
	sured/Range of measurement	Equipment/Techniques used
NICKEL BASE ALLOYS (cont'd) Chen	nical Tests (cont'd)	
Elem	ental analysis (cont'd)	
Carb Sulpt		Combustion and Infra-Red Absorption (300)
Nitro Oxyg		Inert Gas Fusion (299), (302)
Lithiu Beryl Magr Phos Sulfu Chlor Calci Scan Mang Copp Zinc Galliu Germ Arser Brom Seler Rubic Yttriu Rhod Palla Silve Indiu Tin Antin Iodin Tellu Cesiu Lanth Ceriu Prase Neod Sama Euro Gadd Terbi	lium lesium phorus r rine um dium ganese er um nanium nic nine nium dium dium r m lium dium r m nony e rium um nanum um nanum lium dium r m nony e rium um nanum lium lium lium lium lium lium lium li	Glow Discharge Mass Spectrometry (303)

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Howmet Ltd

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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	Glow Discharge Mass Spectrometry (303)

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
COBALT BASE ALLOYS	Chemical Tests Elemental analysis 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	Equipment/Techniques used XRFS (294) XRFS (298) Combustion and Infra-Red Absorption (295) (300) Inert Gas Fusion (299), (302)

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Howmet Ltd

Issue No: 037 Issue date: 20 March 2025

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
IRON BASE ALLOYS	Chemical Tests Elemental analysis Aluminium Cerium Chromium Cobalt Copper Iron Manganese Molybdenum Niobium Phosphorus Silicon Tantalum Tin Titanium Tungsten Vanadium Zirconium	XRFS (294) XRFS (298)
	Carbon Sulphur Nitrogen Oxygen	Combustion and Infra-Red Absorption (300) Inert Gas Fusion (299), (302)

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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	Mechanical Tests Vickers Hardness (HV 30) Rockwell Hardness (HRC)	BS EN ISO 6507-1:2023 ASTM E92 - 23 BS EN ISO 6508-1:2023
	Stress Rupture (700°C -1050°C)	ASTM E18-24 BS EN 2002-005:2007 ASTM E139-11(2018) BS EN ISO 204:2023
	Tensile tests Ambient Temperature (Range 0.1 - 50kN) Elevated Temperature (650 °C and 850 °C) Excluding the determination of Young's Modulus	BS EN ISO 6892-1:2019 ASTM E8/E8M-2024 BS EN 2002-2:2005 BS EN ISO 6892-2:2018 ASTM E21-20
END		

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