

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.

A handwritten signature in black ink, appearing to read "Matt Gantley", is positioned above a horizontal line.

Matt Gantley, *Chief Executive Officer*
United Kingdom Accreditation Service

Initial Accreditation: 1 May 1982
Certificate Issued: 25 January 2021




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

 <p>UKAS TESTING</p> <p>0142</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Howmet Ltd</p> <p>Issue No: 035 Issue date: 19 April 2024</p>	
	<p>Exeter Alloy Heron Road Exeter Devon EX2 7LL</p>	<p>Contact: Mr A Messenger Tel: +44(0)1392 429760 Fax: +44 (0)1392 429702 E-Mail: andy.messenger@howmet.com</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

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



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

Howmet Ltd
Issue No: 035 **Issue date:** 19 April 2024

Testing performed at main address only

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> Vickers Hardness (HV 30) Rockwell Hardness (HRC) Stress Rupture (700°C -1050°C) 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 6507-1:2023 ASTM E92 - 23 BS EN ISO 6508-1:2023 ASTM E18-22 BS EN 2002-005:2007 ASTM E139-11(2018) BS EN ISO 204:2023 BS EN ISO 6892-1:2019 ASTM E8/E8M-2022 BS EN 2002-2:2005 BS EN ISO 6892-2:2018 ASTM E21-20

END