Certificate of Accreditation

UKAS United Kingdom Accreditation Service

Firth Rixson Metals Ltd

Testing Laboratory No. 0086

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: 22 February 1982
Certificate Issued: 25 January 2021

ilac-MRA

UKAS United Kingdom Accreditation Service

Scan QR Code to verify

UKAS is appointed as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 3155/2009) and operates under a Memorandum of Understanding (MoU) with the Department for Business, Energy and Industrial Strategy (BEIS).

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0086

Accredited to ISO/IEC 17025:2017

Firth Rixson Metals Ltd

Issue No: 039 **Issue date:** 30 March 2022

Shepley Street
Glossop
Derbyshire
SK13 7SA

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Website: www.howmet.com/firthrixson/

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 AND ALLOYS: FERROUS and NON-FERROUS Nickel, iron and cobalt based alloys (cont'd)	<u>Chemical Tests</u>	
	Aluminium Cerium Cobalt Copper Chromium Hafnium Iron Manganese Molybdenum Nickel Niobium Phosphorus Platinum Rhenium Silicon Tantalum Titanium Tungsten Vanadium Yttrium Zirconium	Documented In-House Method JI 209 (X-ray fluorescence spectrometry - wavelength dispersive)
	Carbon and Sulphur	Documented In-House Methods JI-230 (combustion/infra-red absorption)
	Oxygen and Nitrogen	Documented In-House Method JI 142 and JI 367 (combustion/thermal conductivity/infra-red absorption)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS AND ALLOYS: FERROUS and NON-FERROUS Nickel, iron and cobalt based alloys (cont'd)	<u>Chemical Tests (Cont'd)</u> Silicon Manganese Phosphorus Sulphur Molybdenum Silver Arsenic Gold Boron Bismuth Calcium Cadmium Cerium Copper Gallium Germanium Mercury Indium Potassium Lanthanum Magnesium Sodium Lead Antimony Selenium Tin Tantalum Tellurium Thorium Titanium Thallium Uranium Vanadium Zinc Zirconium	Documented In-House Method Jl-140 (Glow Discharge Mass Spectrometry)

0086 **Accredited to ISO/IEC 17025:2017**	**Schedule of Accreditation** **issued by** **United Kingdom Accreditation Service** 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK
	Firth Rixson Metals Ltd **Issue No:** 039 **Issue date:** 30 March 2022
Testing performed at main address only	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Nickel, iron and cobalt based superalloys Titanium alloys	<u>Mechanical Tests</u> Hardness testing Rockwell hardness HRC	 BS EN ISO 6508-1:2016 ASTM E18-18a
END		