

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4228 Accredited to ISO/IEC 17025:2017	Forged Solutions Testing part of Forged Solutions Group Limited Issue No: 021 Issue date: 08 January 2024	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Forged Solutions Testing, UKAS reference 4228, is accredited for a flexible scope that enables them to conduct accredited testing through the update of currently accredited test methods to the latest versions of those test methods for the activities detailed below, in accordance with their documented in-house procedure 26.02

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS Cobalt alloys, Copper alloys, Nickel alloys, Steels and Titanium alloys	<u>Mechanical Tests</u> Impact: Charpy (U and V-notches) (-60°C to ambient temperature) Izod Tensile (ambient temperature) (forces from 1.25kN to 500kN) Tensile (temperatures up to 900°C) (forces from 1.25kN to 250kN) Stress Rupture (temperature up to 900°C) Creep (temperature 300°C to 900°C) <u>Hardness</u> Brinell (HBW 10/3000) Rockwell (HRC) Vickers (HV30 & HV0.3)	 BS EN ISO 148-1 ASTM E23 ASTM A370 BS 131: Part 1 BS EN ISO 6892-1 BS EN 2002-1 ASTM A370 ASTM E8/E8M BS EN ISO 6892-2 BS EN 2002-2 ASTM E21 BS EN 2002-005 BS EN ISO 204 ASTM E139 ASTM E 292 BS EN 2002-005 BS EN ISO 204 ASTM E139 BS EN ISO 6506-1 ASTM E10 BS EN ISO 6508-1 ASTM E18 BS EN ISO 6507-1 ASTM E92



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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 (cont'd) Cobalt alloys, Copper alloys, Nickel alloys, Steels and Titanium alloys (cont'd)	<u>Metallography</u> Average Grain size (comparison & intercept methods) Grain size determination (As Large As - ALA) Volume Fraction by Manual Point Count Macro Evaluation Microstructural Evaluation Inclusion Content (Cleanness) Inclusion or 2 nd Phase Determination by Automatic Image Analysis Depth of decarburisation by low load hardness technique <u>Chemical Tests</u>	ASTM E112 ASTM E930 ASTM E562 Documented in-house method METLAB DOC 3 Documented in-house method METLAB DOC 10 ASTM E45 ASTM E1245 ASTM E384 or E92 Documented in-house method METLAB DOC 14
Titanium Alloys	Determination of Hydrogen	Documented In-House Method Met Lab Doc 15 – using inert gas fusion technique
END		