


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>0408</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Airbus Operations Limited</h3> <p>Issue No: 028 Issue date: 24 February 2025</p>	
	<p>AIRTeC Airbus Operations Building 07Y Aerospace Avenue Filton Bristol BS34 7PA</p>	<p>Contact: Mr Mike Krassos Tel: +44 (0) 1179 360194 Fax: +44 (0)117 9362432 E-Mail: Michael.krassos@airbus.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
<p>MATERIALS & PROCESSES LABORATORY</p> <p>Metals, Alloys and Metal Products</p>	<p><u>Mechanical Tests</u></p> <p>Hardness Vickers (HV 5 & 10)</p>	<p>BS EN ISO 6507-1:2023 LT 15.07.46</p>
	<p><u>Chemical Tests</u></p> <p>Elemental Analysis (X-ray Fluorescence)</p>	<p>Documented In-House Procedure LT 19.26.00</p>
	<p>Elemental analysis of Microstructural constituents and particulate materials > 5 um diam</p>	<p>Documented In-House Procedure LT 15.07.25 using Scanning Electron Microscopy with Energy Dispersive X-Ray Analysis</p>
	<p><u>Chemical/Physical Tests</u></p>	
<p>Fasteners and Fastener Components</p>	<p>Torque (Locking and Break Away Torque)</p>	<p>ABS1420 Issue A, NASM25027 Rev. 1 LT.01.02.41</p>
	<p>Clamping Force (Pre-load test)</p>	<p>ABS1420 Issue A, ABS1419 Issue 2</p>
<p>Rubbers and Rubber Products</p>	<p>Resistance to Fluids</p>	<p>BS ISO 1817:2024 LT.19.16.02</p>
<p>Sealants</p>	<p>Peel</p>	<p>AITM2-0013 AITM7-0006 LT.01.02.38</p>



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MATERIALS & PROCESSES LABORATORY (cont'd)	<u>Chemical/Physical Tests</u> (cont'd)	
Paints, Varnishes and Temporary Protectives	Scratch Resistance	ISO 1518-1:2023 LT.20.10.05
	Cross Cut Test	BS EN ISO 2409:2020 LT.20.10.03
	Resistance to Liquids	BS EN ISO 2812-1:2017 LT.19.16.00
Metal Coatings	Resistance to Continuous Salt Spray	ASTM B117-19 BS EN ISO 9227:2022+A1: 2024 LT.19.24.00
Anodic Films	Corrosion resistance	ASTM:B117- 09 BS EN ISO 9227:2022+A1:2024 LT.19.24.00



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<p>STRUCTURAL TEST DOMAIN</p> <p>Aerospace Equipment Aerospace Structures Castings Forgings Metal Products Structural Components Structures</p>	<p><u>Mechanical Testing</u></p> <p>1 <u>Custom Built Rigs for Individual Test Specimens</u></p> <p>a) Static Loading</p> <p>Single/Multi Channel loading, (Loads from 0.5 kN to 8000 kN)</p> <p>b) Programmed Fatigue Loading</p> <p>Single/Multi Channel loading, (Loads from 0.5 kN to 8000 kN)</p> <p>2 <u>Strong Floor Facility</u> - based on reusability and flexible approach</p> <p><u>Strong Floor</u> 40 x 18m with 23m working height 663 anchor locations on 1m x 1m grid. Each Anchor point loading capacity; 500kN (Compression) & 350kN (Tension/Shear)</p> <p><u>Strong Wall</u> 13m wide x 10m tall x 4m deep Modular design that can be split into smaller sections to allow multiple simultaneous tests with no interaction. Sections are moveable and can be relocated to different positions on Strong Floor.</p> <p><u>Reusable Structures</u> Highly agile, modular, easily configurable reaction systems for multi-axis tests used in conjunction with Strong Floor and Strong Wall.</p>	<p>Documented In-House Procedures using control systems based on Moog or MTS test controllers.</p> <p>Data acquisition using HBM MGC + Platform</p> <p>Documented In-House Procedures using control systems based on MTS or Moog test controllers. Data acquisition using HBM MGC+ Platform</p>



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<p>STRUCTURAL TEST DOMAIN (cont'd)</p> <p>Aerospace Materials Aerospace Structures Castings Composite Materials Fasteners Forgings Laminates and Fibre Composites Metal Products Metals and Alloys Structural Components Structures</p>	<p><u>Mechanical Testing</u> (cont'd)</p> <p>3 <u>Universal Test Machines</u></p> <p>a) Tension/Compression Tensile/Compressive tests (Loads 2N to 8000 kN) (Temperature -50°C to +160°C) (Relative humidity 35% to 95%)</p> <p>b) Fatigue Loading – Constant amplitude and/or Programmed sequences (Tension/Compression up to 8000 kN)</p> <p>Note: Specimens loaded using variety of fittings, hydraulic grips – closed and open faced, mechanical wedge, platens, forks and pins etc. Max test piece sizes dependent upon machine; Max using hydraulic grips (tension & compression) – 1800 mm. Max using platens (compression) – 8000 mm. Max using pins and forks (tension) – 6000 mm</p> <p><u>Mechanical Tests</u></p>	<p>Documented In-House Procedures using control systems based on Moog, Instron, ZWICK/ROELL or MTS test controllers. Data acquisition using HBM MGC + Platform</p>
Metals, Alloys and Metal Products	Tensile (Up to 200 kN)	BS EN 2002-1:2005 LT.01.02.12
Phenolic Mouldings, Reinforced Laminates, Phenolic Epoxy and Polyester, and Rubbers	Tension (Up to 2500kN) Bearing Stress / Strength (Up to 2500kN)	AITM 1-0007 Issue 5 LT.01.02.12 AITM 1-0009 Issue 4 LT.01.02.15
END		