

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>9515</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>National Manufacturing Institute Scotland (NMIS)</b> <b>part of University of Strathclyde</b>	
	<b>Issue No:</b> 008 <b>Issue date:</b> 07 June 2024	<b>Contact:</b> Idil Temizyurek <b>Tel:</b> +44 (0)7815 460999 <b>E-Mail:</b> idil.temizyurek@strath.ac.uk <b>Website:</b> www.nmis.scot
85 Inchinnan Drive Inchinnan Renfrew PA4 9LJ		
<b>Testing performed by the organisation at the locations specified below</b>		

Locations covered by the organisation and their relevant activities

Location details	Technology Centre Activity	Location code
<b>Location Address</b> 85 Inchinnan Drive Inchinnan Renfrew PA4 9LJ	<b>Advanced Forming Research Centre - AFRC</b>  Residual Surface Stress  Mechanical test - Tensile Mechanical test - Compression	AFRC
<b>Local contact</b> Idil Temizyurek Tel: +44 (0)7815 460999 E-Mail: idil.temizyurek@strath.ac.uk	<b>Digital Factory</b>  CMM Measurements	Digital Factory



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location
Metallic Materials and Alloys / Formed and Forged Components, Machined Surfaces	<u>Residual Surface Stress</u>		
	Residual Stress Measurements by X-Ray Diffraction (XRD)	NPL's Measurement Good Practice Guide No. 52 (Issue 2)	AFRC
	Determination of Residual Stresses by Hole-Drilling Strain-Gage Method	ASTM E837-20	AFRC
	<u>Mechanical Test</u>		
	Tensile (ambient temperature) (Forces from 1 kN to 100 kN)	ASTM E8/E8M-22	AFRC
	Tensile (elevated temperature) (Forces from 1 kN to 50 kN) (T = ambient to 1000 °C)	ASTM E21-20	AFRC
	Compression (ambient temperature) (Forces from 1 kN to 250 kN)	NPL's Measurement Good Practice Guide No. 3 (Rev 2022)	AFRC
	Compression (Temperature range upto 1100 °C) Forces up to 70 kN)	NPL's Measurement Good Practice Guide No. 3 (Rev 2022)	AFRC
<u>CMM Measurements</u>			
<b>General dimensional measurements, made using a coordinate measuring machine, with best measurement capability of:</b>	Customer drawings and specifications. Laboratory procedures based on NPL Good Practice Guides 41 – (Issue 2) and 43 (Issue 2)	Digital Factory	
Length, Diameter and Position 0 to 900 x 900 x 700 mm – 5.9 + (21 x length in m) µm			
Angle – 2.0 minutes of arc			

END