


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> TESTING</p> <p>4277 Accredited to ISO/IEC 17025:2017</p>	<p><b>Abbey Forged Products Ltd</b> <b>trading as Metal Testing UK</b></p> <p>Issue No: 024 Issue date: 24 August 2021</p>	
	<p><b>Beeley Wood Works</b> Beeley Wood Lane Sheffield S6 1ND</p>	<p><b>Contact: Mr Trevor Ridge</b> Tel: +44 (0)114 231 2271 Fax: +44 (0)114 231 8806 E-Mail: Trevor.Ridge@abbeyfp.co.uk</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS	<p><u>Mechanical Tests</u></p> <p>Tensile test (ambient to 700°C) (Forces 10kN to 250kN)</p>	<p>BS EN ISO 6892-1:2019 BS EN 6892-2:2018 (Method B) ASTM E8/E8M-16a ASTM E21-17 ASTM A370-20</p>
	<p><u>Impact</u></p> <p>Charpy (U and V-notches) (-196°C to ambient temperature) Including crystallinity/shear &amp; lateral expansion</p>	<p>BS EN ISO 148-1:2016 ASTM E23-18 ASTM A370-20 ASTM A923-14 (Method B)</p>
	<p><u>Hardness</u></p> <p>Brinell (10/3000 HBW)</p>	<p>BS EN ISO 6506-1:2014 ASTM E10-18</p>
	<p>Rockwell (B &amp; C Scales)</p>	<p>BS EN ISO 6508-1:2016 ASTM E18-20</p>
	<p>Vickers (HV10 &amp; HV30)</p>	<p>BS EN ISO 6507-1:2018 ASTM E92-17</p>
	<p><u>Corrosion</u></p> <p>Resistance to pitting corrosion</p>	<p>ASTM G48-11(2020) (Method A)</p>
	<p>Inter-granular corrosion</p>	<p>ASTM A262-15 Practice E ASTM G28- 02(2015) Method A BS EN ISO 3651-2:1998 Method A</p>
	<p>Detecting detrimental Intermetallic phases (Duplex stainless steels)</p>	<p>ASTM A923-14 (Method C)</p>



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**Abbey Forged Products Ltd**  
trading as **Metal Testing UK**

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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)	<u>Metallography</u>  Average Grain size (comparison method)  Inclusion content (Methods A & D)  Volume fraction  Decarburisation depth (microscopic method)  Macro examination  Micro structure assessment  Detecting detrimental Intermetallic phases (Duplex stainless steels)	ASTM E112-13 BS EN ISO 643:2020  ASTM E45-18a  ASTM E562-19  ASTM E1077-14  ASTM E381-20 ASTM A604/604M-07(2017) API 6A718 2 <sup>nd</sup> Edition API 6CRA 2015 Add1 Err2  Documented in-house method QAP 023 API 6A718 2 <sup>nd</sup> Edition API 6ACRA 2015 Add3  ASTM A923-14 (Method A)
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Chemical Tests</u>  Determination of Carbon and Sulphur  Determination of Oxygen and Nitrogen	Documented in-house methods QAP 042 using Combustion technique with IR detection  Documented in-house method QAP 041 using Inert gas fusion techniques



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METALS, ALLOYS and METAL PRODUCTS (cont'd)  Carbon, Duplex and Low Alloy Steels, Stainless Steels and Nickel Alloys	<u>Chemical Tests</u>  <u>Elemental analysis</u> Aluminium Antimony Arsenic Boron Calcium Carbon Chromium Cobalt Copper Iron Lead Manganese Molybdenum Nickel Niobium Phosphorus Silicon Sulphur Tantalum Tin Titanium Tungsten Vanadium Zirconium	Documented in-house method QAP 045 using spark source Optical Emission Spectroscopy
END		