

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 1409</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>RMR Materials Testing Co Limited</p> <p>Issue No: 036 Issue date: 10 August 2021</p>	
	<p>Unit 1a Holloway Street West Lower Gornal Dudley West Midlands DY3 2DZ</p>	<p>Contact: Mr M C Richards Tel: +44 (0)1384-234515 Fax: +44 (0)1384-235511 E-Mail: rrmrmaterialstesting@gmail.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>METALS, ALLOYS and METAL PRODUCTS</p> <p>Plain carbon and low alloy steels, Stainless steels</p> <p>Nickel Alloys</p> <p>Copper Alloys</p>	<p><u>Chemical Tests</u></p> <p>Elemental Analysis: Al, As, B, C, Co, Cr, Cu, Mn, Mo, N, Nb, Ni, P, Pb, S, Sb, Si, Sn, Ti, V, W, Zr</p> <p>Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, N, Nb, P, S, Si, Ta, Ti, V, W, Zr</p> <p>Al, As, Cr, Fe, Mg, Mn, Ni, P, Pb, S, Sb, Si, Sn, Zn</p>	<p>Documented In-House Method No. 21 using Optical Emission Spectroscopy</p>
<p>METALS, ALLOYS and METAL PRODUCTS</p>	<p><u>Mechanical Tests</u></p> <p>Hardness:-</p> <p>Brinell: HBW 10/3000</p> <p>Rockwell 'B' and 'C'</p> <p>Vickers (HV 0.3, 5, 10, 30)</p> <p>Impact:-</p> <p>Charpy (-196 °C and -120 °C to ambient temperature) Including lateral expansion and percentage shear by comparison</p> <p>Izod</p>	<p>BS EN ISO 6506-1:2014 ASTM E10-18</p> <p>BS EN ISO 6508-1:2016 ASTM E18-20</p> <p>BS EN ISO 6507-1:2018 ASTM E384-17 ASTM E92-17</p> <p>BS EN ISO 148-1:2016 ASTM E23-18</p> <p>BS 131:Part 1:1961</p>



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METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u> (cont'd)	
	Tensile at ambient temperature (forces up to 1000 kN)	BS EN ISO 6892-1 :2019 ASTM E8/E8M-21 ASTM A370-20
Bolts and Nuts	Proof load Tensile Strength	BS EN ISO 898-1:2013 BS EN ISO 898-2:2012 BS EN ISO 3506-1:2020 ASTM F738M-02(2008) Withdrawn
Bolts	Proof load Tensile strength and Tensile strength under wedge loading	ASTM F606/F606M-19 Method 1 BS EN ISO 898-1:2013 ASTM A370-20
Nuts	Proof load	ASTM A962/A962M-19
Weldments	<u>Mechanical and Metallurgical Tests</u>	
	Tests designated in specific welding codes, excluding non-destructive testing - as detailed below:	BS EN ISO 9606-1:2017 BS EN ISO 15614-1:2017+A1 :2019 BS EN ISO 9016 :2012 BS EN ISO 5178:2019 BS EN ISO 4136 :2012 BS EN ISO 5173 :2010+A1 :2011 BS EN ISO 9015-1 :2011 BS EN ISO 9017 :2018 BS EN ISO 17639 :2013 BS EN ISO 5817 :2014 ASME BPVC-IX-2019
	Bend, Fracture, Hardness, Impact, tensile, Macro-examination, Micro-examination.	
Steel Bars, Billets, Blooms, and Forgings	<u>Metallurgical Test</u>	
	Depth of decarburisation	BS EN ISO 3887:2018 ASTM F2328-17/F2328M-17
	Macro-examination Grain size	ASTM E381-20 ASTM E112-13
	Inclusion content	ASM E45-18a
	Degree of Banding and Orientation in Microstructure	ASTM E1268-01 (2016) Superseded
END		