

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 1178</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Southdown Materials Testing Ltd</p> <p>Issue No: 038 Issue date: 22 October 2021</p>	
	<p>Unit 5, Tansey Green Trading Est Tansey Green Road Pensnett Brierley Hill West Midlands DY5 4TL</p>	<p>Contact: Mr S R Southall Tel: +44 (0)1384 482880 Fax: +44 (0)1384 482877 E-Mail: enquiries@southdowntesting.co.uk Website: www.southdowntesting.co.uk</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	
METALS, ALLOYS and METAL PRODUCTS	<u>Chemical Tests</u>	Documented In-House Method TP 63, using Optical Emission Spectrometry	
Aluminium Alloys	Elemental analysis Si, Mn, Cr, Ni, Cu, Ti, Pb, Sn, Fe, Mg, Zn		
Plain Carbon and Low Alloy Steels	As, C, Sb, Si, Mn, P, S, Al, Cr, Mo, Ni, Cu, V, B, Sn, Co, Ti, W, Pb, Nb, Zr		
Stainless Steels (Austenitic, Ferritic and Duplex)	C, Si, Mn, P, S, Cr, Ni, Mo, Nb, Ti, Co, N, Cu, W & V.		
Nickel Alloys	C, Si, Mn, P, S, Cr, Ni, Mo, Nb, Ti, Co, N, Cu, Fe, Al, Ta, B & V.		
Free Cutting Steels	C, Si, Mn, P, S, Ni, Cr, Mo, Cu and Pb		
	<u>Mechanical Tests</u>		
	Bend		BS EN ISO 7438:2016
	Hardness:		
	Brinell (HBW-10/3000)		BS EN ISO 6506-1:2014 ASTM E10-18
	Rockwell (C Scale)	BS EN ISO 6508-1:2016 ASTM E18-19	



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)	
	Vickers (HV10)	BS EN ISO 6507-1:2018
	Low load Hardness (Vickers HV0.5)	BS EN ISO 6507-1:2018 ASTM E384-17 Documented In-House Method TP74
	Micro Hardness (Knoop HK0.5)	ASTM E384-17 Documented In-House Method TP71 Documented In-House Method TP74
	Impact:	
	Izod Ambient Temperature	BS 131-1:1961(1996)
	Charpy (V notch) (Temperatures -196°C and -101°C to Ambient)	BS EN ISO 148-1:2016 ASTM E23-18 ASTM A370-19 ^{e1}
	Lateral Expansion	BS EN ISO 148-1:2016 ASTM E23-18
	Tensile (ambient temperature, forces 40 kN up to 1000 kN)	BS EN ISO 6892-1:2019 ASTM E8/E8M-16a ASTM A370-19 ^{e1} BS 4 A4 Part 1:1966 (withdrawn) BS EN 2002-1:2015
	Tensile (ambient temperature, forces up to 50 kN)	BS EN ISO 6892-1:2019 ASTM E8/E8M-16a ASTM A370-19 ^{e1}
<u>Metallurgical Tests</u>		
Carburisation and Decarburisation	PS 310 Messier –Dowty and PCS-1150 Iss2 Method B	



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<p>METALS, ALLOYS and METAL PRODUCTS (cont'd)</p> <p>Weldments</p>	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Tests designated in specified welding codes as detailed below</p> <p>Bend, Fracture, Hardness, Impact, Tensile and Macro-Micro examination, Visual examination</p>	<p>BS EN 287-1:2011 BS EN ISO 9606-1:2017 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2017+A1:2019 BS EN ISO 15614-2:2005 BS EN ISO 15614-8:2016 BS EN ISO 5817:2014 BS 4871-3:1985 BS 4872-1:1982(2006) BS 4872-2:1976(2006) 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 17637:2016 BS EN ISO 9015-1:2011 BS EN ISO 9017:2018 BS EN ISO 17639:2013 ASME IX-2017 BCAR A8-10</p>
<p align="center">END</p>		