

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



1178

Accredited to
ISO/IEC 17025:2005

Southdown Materials Testing Ltd

Issue No: 022 Issue date: 01 December 2011

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Testing performed at the above address only

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>	
	Elemental analysis	Documented In-House Method TP 35, using Optical Emission Spectrometry
Aluminium Alloys	Si, Mn, Cr, Ni, Cu, Ti, Pb, Sn, Fe, Mg, Zn	
Plain Carbon and Low Alloy Steels	C, Si, Mn, P, S, Al, Cr, Mo, Ni, Cu, V, B, Sn, Co, Ti, W, Pb, Nb	
Stainless Steels (Austenitic and Ferritic)	C, Si, Mn, P, S, Cr, Ni, Mo, Nb, Ti, Co	
Free Cutting Steels	C, Si, Mn, P, S	
	<u>Mechanical Tests</u>	
	Bend	BS EN ISO 7438:2005
	Hardness:	
	Brinell (HBW-10/3000)	BS EN ISO 6506-1:2005 ASTM E10-10
	Rockwell (C Scale)	BS EN ISO 6508-1:2005 ASTM E18-08b
	Vickers (HV10)	BS EN ISO 6507-1:2005 ASTM E384-10
	Micro Hardness (Vickers HV0.5)	BS EN ISO 6507-1:2005
	Micro Hardness (Knoop HK0.5)	ASTM E384-10



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<p><u>Mechanical Tests</u> (cont'd)</p> <p>Hardness: (cont'd)</p> <p>Carburisation and Decarburisation</p> <p>Impact:</p> <p>Izod (Temperatures -196°C and -101°C to Ambient)</p> <p>Charpy (V notch) (Temperatures -196°C and -101°C to Ambient)</p> <p>Lateral Expansion</p> <p>Tensile (ambient temperature, forces 50 kN up to 500 kN)</p> <p>Tensile (ambient temperature, forces up to 50 kN)</p>	<p>PCS-1150 Iss1 15/09/05 PS 5310</p> <p>BS 131-1:1961(1996)</p> <p>BS EN ISO 148-1 :2011 ASTM E23-07 ASTM A370-10</p> <p>BS EN ISO 148-1 :2011 ASTM E23-07</p> <p>BS EN ISO 6892-1:2009 ASTM E8/E8M-08 ASTM A370-10 BS 4 A4 Part 1</p> <p>BS EN ISO 6892-1:2009 ASTM E8/E8M-08 ASTM A370-10</p>



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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 9606-2:2004 BS EN ISO 15614-1:2004 BS EN ISO 15614-2:2005 BS EN ISO 9016 :2011 BS EN ISO 5178 :2011 BS EN ISO 4136 :2011 BS EN ISO 5173:2010 BS EN ISO 17637 :2011 BS EN ISO 9015-1 :2011 BS EN 1320:1997 BS EN 1321:1997 BS 3451:1973(1981) (withdrawn) BS 4206:1967 (withdrawn) BS EN ISO 15614-8:2002 BS 4871:Part 3:1985 BS 4872 Part 1:1982(2006) BS 4872 Part 2:1976(2006) ASME IX - 2010 BS EN ISO 5817:2003 BCAR A8-10</p>
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