

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0854

Accredited to
ISO/IEC 17025:2005

Zurich Management Services Ltd trading as Zurich Laboratory Services

Issue No: 031 Issue date: 13 May 2012

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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>Mechanical Tests</u>	
	Bend testing	BS EN ISO 7438:2005
	Drift expansion	BS EN ISO 8493:2004
	Flattening	BS EN ISO 8492:2004
	Hardness:	
	Rockwell (Scales B and C)	BS EN ISO 6508-1:2005
	Vickers (HV5, 10 and 30)	BS EN ISO 6507-1:2005
	Impact:	
	Charpy V-notch (temperatures - 196 °C and - 70 °C to ambient)	BS EN ISO 148-1:2010
	Charpy Lateral expansion	BS EN ISO 148-1:2010 ASTM A370:11a
Proof loads (loads from 2.5 kN to 500 kN)	Documented In-House Method QAP/LS/T30	
Tensile		
Temperature - ambient (Force from 1 kN to 500 kN)	BS EN ISO 6892-1:2009	
Temperature - ambient (Force from 1 kN to 20 kN)	BS EN 2002-1:2005	



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Metallurgical Tests</u>	
Sheet Steel	Case depth	BS 6286:1982(2005) (ISO 4970:1979)
	Decarburised depth	BS EN ISO 3887:2003
	Ferrite determination	ASTM E562-11
	Grain size	ASTM E112 -10 Comparison Procedure
	Graphite distribution and size	ASTM A247-10
	Particle size	Documented In-House Method QAP/LS/T16
Metallic coatings	Measurement of coating thickness	BS EN ISO 1463:2004
	<u>Corrosion Tests</u>	
Austenitic stainless steels	Pitting corrosion	ASTM G48-11 Method A
	Intergranular corrosion	BS EN ISO 3651-2:1998 ASTM A262-10 Practices A, C and E
WELDMENTS and BRAZINGS	<u>Mechanical and Metallurgical Tests</u>	
	Bend, Fracture, Hardness, Impact, Tensile, Visual, Macro- and Micro-examination	BS EN 287-1:2011 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2004 +A1 :2008 BS EN ISO 15614-2:2005 BS EN ISO 9016:2011 BS EN ISO 5178:2011 BS EN ISO 4136:2011 BS EN ISO 5173:2009 BS EN 1320:1997 (2006) BS EN 1321:1997 (2006) BS EN ISO 9015-1:2011 BS 4872-1:1982(2006) BS 4872-2:1976(2006) BS EN 286-1:1998+A2:2005 BS EN 1090-2:2008+A1:2011 ASME IX:2010 AVP 84 D505 BCAR A8-10



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METALS	<u>Chemical Analysis</u> Elemental Analysis	Documented In-House Methods QAP/LS/T37 using optical emission spectrometric technique
Aluminium Alloys	Al, B, Be, Bi, Ca, Cr, Cu, Fe, Mg, Mn, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn, Zr	
Copper and Copper Alloys	Ag, Al, As, Bi, Cd, Cu, Fe, Mg, Mn, Ni, P, Pb, S, Sb, Si, Sn, Te, Zn,	
Low Alloy and Carbon Steel	Al, As, C, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Pb, S, Si, Sn, Ti, V	
Stainless Steel	Al, As, C, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, S, Si, Ti, V	
Cast Iron	Al, As, C, Cr, Fe, Mg, Mn, Mo, Nb, Ni, P, Pb, S, Si, Sn, Ti, V	
END		