

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



1046

Accredited to  
ISO/IEC 17025:2005

### The Test House (Cambridge) Ltd

Issue No: 024 Issue date: 10 April 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  Austenitic stainless steels	<u>Corrosion Tests</u>  Pitting corrosion  Intergranular corrosion  <u>Mechanical Tests</u>  Bend Testing  Compression (Forces 0.1 kN to 600 kN)  Hardness:  Brinell (1/30 range)  Vickers (HV0.2, HV0.5, HV1.0, HV5, HV10 & HV30)  Rockwell (B & C ranges)  Impact:  Charpy V-notch & U-Notch (Temperature range -196°C to 160°C)  Proof loads (Forces 2.5 kN to 600 kN)  Shear loads (Forces 2.5 kN to 600 kN)	ASTM G48-03 Method A  BS EN ISO 3651-2:1998 Methods A & B ASTM A262-10 Practice E  BS EN ISO 7438:2005  Documented In-House method TP02  BS EN ISO 6506-1:2005  BS EN ISO 6507-1:2005  BS EN ISO 6508-1:2005  BS EN ISO 148-1:2010 ASTM E23-07  Documented In-House Method TP04  Documented In-House Method TP03



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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>Mechanical Tests</u> (Cont'd)	
	Tensile  (Forces 0.1 kN to 600 kN)	ASTM A370-10b ASTM E8/E8M-09 BS EN ISO 6892-1 :2009
	Tensile (Foces 0.1 kN to 600kN) (Temperature Range -196°C to ambient)	Documented In-House Method TP01-3
Bolts, Screws, Studs and Nuts	Tensile and proof load	BS EN ISO 898-1:2009
Tubular Products	Determination of displacement under compressive loading	Documented In-House Method TP04 and documented plans agreed with clients
	Determination of displacement and fracture strength under 3-point bending	Documented In-House Method TP04 and documented plans agreed with clients
	<u>Metallurgical Tests</u>	
	Crystallinity	BS 131:Part 5:1965(1996)
	Decarburised depth	BS EN ISO 3887:2003
	Grain directionality	Documented In-House Method TP20
Metallic coatings	Plating, coating and film thickness	BS EN ISO 1463:2004
	Case depth	BS 6268:1982 BS EN ISO 2639:2002
LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments	<u>Non-Destructive Tests</u>	
	*Liquid Penetrant: Colour contrast and fluorescent - manual application	BS EN 571-1:1997
FEROMAGNETIC METALS	*Magnetic Particle: Black ink - universal and portable kit Fluorescent ink - universal and portable kit	BS 6072:1981(1986) BS EN 1290:1998 BS EN 10228:Part 1:1999 BS EN ISO 9934-1:2001 BS EN ISO 17638 :2009 ISO 9934-1:2001



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FEROMAGNETIC METALS (cont'd)	<u>Non-Destructive Tests</u> (cont'd)  *Radiography: X-ray 20 keV to 400 keV	BS EN 1435:1997 BS EN 444:1994 ASME V :2010 Article 2 ASTM E1032-06
WELDMENTS	Tests designated in specified welding codes - as detailed below:-  <u>Mechanical and Metallurgical Tests</u>  Bend, Fracture, Hardness, Impact, Tensile, Visual examination, Macro- and Micro-examination, Liquid penetrant*, Magnetic particle* and Radiographic examination*.  *Under the supervision of suitably qualified personnel	BS 4515-1:2004 BS 4515-2:1999 BS 4872:Part 1:1982(1995) BS 4872:Part 2:1976(1995) BS 7123:1989 (withdrawn) BS EN 287:Part 1:2004 BS EN 875:1995 BS EN 876:1995 BS EN 895:1995 BS EN ISO 5173 :2010 BS EN 970:1997 BS EN 1043-1:1996 BS EN 1320:1997 BS EN 1321:1997 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2004 +A1 :2008 BS EN ISO 15614-2 :2005 BS EN ISO 15614-8:2002 API 5L 44 <sup>th</sup> Edition, 2007 API 1104 20 <sup>th</sup> Edition, 2008 ASME IX:2010 AWS D1.1:2010 BCAR A8-10: January 2003

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