

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2005	TEi Ltd	
	Issue No: 018	Issue date: 02 November 2011
	Metallurgical Services PO Box 80 Calder Vale Road Wakefield West Yorkshire WF1 5YS	Contact: Mr R Heywood Tel: +44 (0)1924 780000 Fax: +44 (0)1924 386539 E-Mail: metserv@tei.co.uk Website: www.tei.co.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Metallurgical Services PO Box 80 Calder Vale Road Wakefield West Yorkshire WF1 5YS	Local contact Mr R Heywood	Corrosion, Mechanical & Metallurgical A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customers' premises/sites	Mechanical & Metallurgical	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS	<u>Corrosion Tests</u>		
Austenitic Stainless Steels	Intergranular corrosion	BS EN ISO 3651-2:1998 Method A ASTM A262-02(2008) (Practice E)	A
Stainless Steels	Pitting corrosion resistance	ASTM G48-03(09) Method A	A
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438:2005	A
	Hardness:		
	Rockwell (HRB & HRC)	BS EN ISO 6508-1:2005 ASTM E18-08b	A
	Vickers (HV, 5, 10, 30) (HV5, 10, 30)	BS EN ISO 6507-1:2005 ASTM E384-09	A
	Vickers – Micro (HV0.2, 0.5 & 1.0)	ASTM E384-09	A
	Vickers – Low Force (HV0.2, 0.5 & 1.0)	BS EN ISO 6507-1:2005	A
	Impact:		
	Charpy (V-notch) and (temperatures from 77 K to 473 K)	BS EN ISO 148-1:2010 ASTM E23-07a	A
	Tensile (forces from 1.6 KN - 500 KN) Ambient Temperature	BS EN ISO 6892-1:2009 ASTM E8/E8M-09 ASTM A370-10	A
	Tensile (forces from 1.6 KN - 200 KN) Temperature range 273K to 1173 K	BS EN ISO 6892-2:2011 ASTM E21-09	A



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests (cont'd)</u>		
Steel tubes	Tube - Flattening	BS EN ISO 8492:2004	A
	Tube - Drift expanding	BS EN ISO 8493:2004	A
	Tube - Ring expanding	BS EN ISO 8495:2004	A
	Tube - Ring tensile	BS EN ISO 8496:2004	A
	<u>Metallurgical Tests</u>		
	Grain size	ASTM E112-96(2004)	A
	Volume Fraction	ASTM E562-08	A
Steel castings, forgings and weldments	Comparative in-situ hardness (80 HV to 940 HV)	Documented In-house Methods TEMS/SOP/11 (Equotip method) TEMS/SOP/34 (Krautkramer Mic 10)	B
Weldments	<u>Metallurgical Test</u>		
	In-situ replication of surface microstructures	Documented In-house Method TEMS/SOP/35	B
	<u>Mechanical and Metallurgical Tests</u>		
	Tests designated in specified Welding Codes as detailed below:		
	Bend, Fracture, Hardness, Impact, Tensile, Macro examination, and Visual examination	BS EN 287:Part 1:2004 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2004 BS EN ISO 15614-2:2005 BS EN 288:Part 9:1999 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	A



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METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical and Metallurgical Tests (cont'd)</u> Tests designated in specified Welding Codes as detailed below: Bend, Fracture, Hardness, Impact, Tensile, Macro examination, and Visual examination	ISO 10042:2005 BS 709:1983 BS 2790:1992 BS 4515-1:2004 PD 5500:2006 ISO 5817:2003 ASME IX-2010	A
END			