

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1450</b> Accredited to <b>ISO/IEC 17025:2005</b>	<b>TEi Ltd</b>	
	<b>Issue No: 024    Issue date: 18 January 2018</b>	
	<b>Metallurgical Services</b> PO Box 80 Calder Vale Road Wakefield West Yorkshire WF1 5YS	<b>Contact: Mr R Heywood</b> Tel: +44 (0)1924 780000 Fax: +44 (0)1924 386539 E-Mail: <a href="mailto:metserv@tei.co.uk">metserv@tei.co.uk</a> Website: <a href="http://www.tei.co.uk">www.tei.co.uk</a>
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
<b>Address</b> Metallurgical Services PO Box 80 Calder Vale Road Wakefield West Yorkshire WF1 5YS	<b>Local contact</b> 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

TEi Ltd, UKAS reference 1450, is accredited for a flexible scope that enables them to conduct accredited testing, through the update of currently accredited test methods to the latest versions of those test methods, for the activities detailed below, in accordance with their documented in-house procedure QSP 13.

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 Method A ASTM A262 (Practice B & E) ASTM G28-02 (Method A)	A
Stainless Steels	Pitting corrosion resistance	ASTM G48 Method A	A
	<u>Mechanical Tests</u>		
	Bend	BS EN ISO 7438	A
	Hardness:		
	Rockwell (HRB & HRC)	BS EN ISO 6508-1 ASTM E18	A
	Vickers (HV, 5, 10, 30) (HV5, 10, 30)	BS EN ISO 6507-1 ASTM E92	A
	Vickers – Micro (HV0.2, 0.5 & 1.0)	ASTM E384	A
	Vickers – Low Force (HV0.2, 0.5 & 1.0)	BS EN ISO 6507-1	A
	Impact:		
	Charpy (V-notch) and (temperatures from 77 K to 473 K)	BS EN ISO 148-1 ASTM E23	A
	Tensile (forces from 1.6 KN - 500 KN) Ambient Temperature	BS EN ISO 6892-1 ASTM E8/E8M ASTM A370	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Mechanical Tests</u> (cont'd)		
	Tensile (forces from 1.6 KN - 200 KN) Temperature range 273K to 1173 K	BS EN ISO 6892-2 ASTM E21	A
	Steel tubes		
	Tube - Flattening	BS EN ISO 8492	A
	Tube - Drift expanding	BS EN ISO 8493	A
	Tube - Ring expanding	BS EN ISO 8495	A
	Tube - Ring tensile	BS EN ISO 8496	A
	<u>Metallurgical Tests</u>		
	Grain size	ASTM E112	A
	Volume Fraction	ASTM E562	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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
METALS, ALLOYS and METAL PRODUCTS (cont'd)  Weldments	<u>Mechanical and Metallurgical Tests (cont'd)</u>		
	<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 ISO 9606-1 BS EN ISO 9606-2 BS EN ISO 15614-1 BS EN ISO 15614-2 BS EN ISO 14271 BS EN ISO 22826 BS EN 288:Part 9 BS EN ISO 9016 BS EN ISO 5178 BS EN ISO 4136 BS EN ISO 5173 BS EN ISO 17637 BS EN ISO 9015-1 BS EN ISO 9015-2 BS EN ISO 9017 BS EN ISO 17639	A
Tests designated in specified Welding Codes as detailed below:  Bend, Fracture, Hardness, Impact, Tensile, Macro examination, and Visual examination	ISO 10042 BS 709 BS 2790 BS 4515-1 PD 5500 ISO 5817 ASME IX ASTM E290	A	
END			