


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 2233 Accredited to ISO/IEC 17025:2017	<b>Element Materials Technology Aerospace UK Limited, Trading as Element Materials Technology Shotton</b>	
	Issue No: 036 Issue date: 22 April 2021	
	<b>c/o Tata Steel Shotton Works Deeside Flintshire CH5 2NH</b>	<b>Contact: Mr Craig McKenzie Tel: +44 (0)7827 312501 Fax: +44 (0)1524 62983 E-Mail: Craig.Mckenzie@element.com Website: www.element.com</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Element Materials Technology c/o Tata Steel Shotton Works Deeside Flintshire CH5 2NH	<b>Local contact</b> Mr Craig McKenzie Tel: +44 (0)161 7873250 Fax: +44 (0)161 7873251 E-Mail: craig.mckenzie@element.com	SHO  Coatings - Performance tests Environmental samples – Chemical tests Metals & Weldments – Chemistry tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Metals & Weldments - NDT tests

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Premises including commercial and industrial	Metals & Weldments - NDT tests Identification by OES	C&I



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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> Salt Spray	ASTM B117-18	SHO
Carbon and Low Alloy Steels and Irons	<u>Mechanical Tests</u> Hardness: Rockwell (B and C Scales) Vickers (HV10) Tensile (Forces from 0.1kN to 1000kN) Plastic Strain Ratio (R-value) Tensile Strain Hardening Exponent (n Value)	BS EN ISO 6508-1:2016 BS EN ISO 6507-1:2018 BS EN ISO 6892-1:2016 BS EN ISO 10113:2014 BS EN ISO 10275:2014	SHO SHO SHO SHO
LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments	<u>Metallurgical Tests</u> Grain size (Comparison method)	ASTM E112-13	SHO
FERROMAGNETIC MATERIALS	<u>Non Destructive Testing</u> Liquid Penetrant: Colour contrast - manual application	BS EN ISO 3452-1:2013	SHO & C&I
	Magnetic Particle: Black ink portable kit	BS 6072:1981 BS EN 1290:1998 (superseded) BS EN ISO 9934-1:2016 BS EN 10228-1:2016 BS EN 17638:2016	SHO & C&I
EFFLUENT ANALYSIS	<u>Chemical Tests</u> <u>Elemental Analysis</u> Mn, S, Cr, Ni, Al, Cu, Cd, Pb, Zn, Fe, K, Sr	Documented In-House Method MD 12 using ICP-OES techniques	SHO



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EFFLUENT ANALYSIS (cont'd)  GROUNDWATER, NATURAL WATER, PROCESS WATER and EFFLUENT SAMPLES	<u>Chemical Tests</u> (cont'd)		
	Elemental Analysis Ti, Ni, V, Zn, Al, As, B, Ba, Ca, Cd, Cr, Cu, Co, Fe, K, Mg, Na	Documented In-House Method MD 12 using ICP-OES techniques	SHO
	COD	Documented In-House Method MD 05 using HACH techniques	SHO
	Ammoniacal Nitrogen	Documented In-House Method MD 06 using HACH techniques	SHO
	Gravimetric determination to suspended solids (5 to 250 mg/l)	Documented In-House Method MD 10	SHO
Conductivity	Documented In-House Method MD 11	SHO	
pH Analysis	Documented In-House Method MD 15	SHO	
END			