

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>2233</b>  Accredited to <b>ISO/IEC 17025:2005</b>	<b>Exova (UK) Ltd</b>	
	Issue No: 020 Issue date: 11 January 2017	
	<b>c/o Tata Steel</b> <b>Shotton Works</b> <b>Deeside</b> <b>Flintshire</b> <b>CH5 2NH</b>	<b>Contact: Mr David Rawcliffe</b> <b>Tel: +44 (0)161 7873250</b> <b>Fax: +44 (0)161 7873251</b> <b>E-Mail: david.rawcliffe@exova.com</b> <b>Website: www.exova.com</b>
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> Exova (UK) Ltd c/o Tata Steel Shotton Works Deeside Flintshire CH5 2NH	<b>Local contact</b> Mr David Rawcliffe Tel: +44 (0)161 7873250 Fax: +44 (0)161 7873251 E-Mail: david.rawcliffe @exova.com	SHO  Coatings - Performance tests Environmental samples - Chemical tests Metals & Weldments - Chemical 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	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 B117-16	SHO
	<u>Chemical Tests</u>		
Low Alloy Steels and Irons	Elemental Analysis C, Si, Mn, P, S, Cr, Mo, Ni, Cu, Al, Ti, Nb, Sn	Documented In-House Method MD 13 using ICP-OES techniques	SHO
	<u>Mechanical Tests</u>		
	Hardness:		
	Rockwell (B and C Scales)	BS EN ISO 6508-1:2015	SHO
	Vickers	BS EN ISO 6507-1:2005	SHO
	Tensile (Forces from 0.1kN to 1000kN)	BS EN ISO 6892-1:2009	SHO
	Plastic Strain Ratio (R-value)	BS EN ISO 10113:2014	SHO
	Tensile Strain Hardening Exponent (n Value)	BS EN ISO 10275:2014	SHO
	<u>Metallurgical Tests</u>		
	Grain size (Comparison method)	ASTM E112-13	SHO



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LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments	<u>Non Destructive Testing</u>		
	Liquid Penetrant: Colour contrast - manual application	BS EN ISO 3452-1:2013 ASME V:2015	SHO & C&I
FERROMAGNETIC MATERIALS	Ultrasonic Thickness Measurement	BS EN 14127:2011	SHO & C&I
	Magnetic Particle: Black ink portable kit	BS 6072:1981 ASME V:2015 BS EN 1290:1998 (superseded) BS EN ISO 9934-1:2015 BS EN 10228-1:1999 BS EN 17638:2009	SHO & C&I
EFFLUENT ANALYSIS	<u>Chemical Tests</u>		
	Elemental Analysis Mn, S, Cr, Ni, Al, Cu, Cd, Pb, Zn, Fe, K	Documented In-House Method MD 12 using ICP-OES techniques	SHO
	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
GROUNDWATER, NATURAL WATER, PROCESS WATER and EFFLUENT SAMPLES	Determination to suspended solids (5 to 250 mg/l)	Documented In-House Method MD 10	SHO
	Conductivity	Documented In-House Method MD 11	SHO
ORGANIC ANTI-CORROSION COATINGS	<u>Performance Tests</u> Water Resistance of Coatings in 100% Relative Humidity	ASTM D2247-15	SHO

END