


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS TESTING 2233</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Exova (UK) Ltd</p> <p>Issue No: 016 Issue date: 13 April 2012</p>	
	<p>Corus Shotton Works Deeside Flintshire CH5 2NH</p>	<p>Contact: Mr C Louis Tel: +44 (0)1244 892400 Fax: +44 (0)1244 810580 E-Mail: colin.louis@exova.com Website: www.exova.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Exova (UK) Ltd Corus Shotton Works Deeside Flintshire CH5 2NH</p> <p>Local contact Mr C Louis Tel: +44 (0)1244 892400 Fax: +44 (0)1244 810580 E-Mail: colin.louis@exova.com</p>	<p>Coatings - Performance tests Environmental samples - Chemical tests Metals & Weldments - Chemical tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Metals & Weldments - NDT tests</p>	SHO

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>		
	<u>Salt Spray</u>	ASTM B117-09 DIN 5021 (Withdrawn)	SHO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
Carbon and Low Alloy Steels	Elemental Analysis C & S	Documented In-House Method MD 07 using combustion techniques	SHO
	<u>Mechanical Tests</u>		
	Hardness:		
	Rockwell (B and C Scales)	BS EN ISO 6508-1:2005	SHO
	Vickers	BS EN ISO 6507-1:2005	SHO
	Impact:		
	Charpy (V-notch) (Temperatures range 77K to ambient)	BS EN ISO 148-1:2010	SHO
	Tensile (Forces from 3kN to 300kN)	BS EN ISO 6892-1:2009 ASTM E8/E8M-08	SHO
	<u>Metallurgical Tests</u>		
	Grain size (Comparative)	ASTM E112-96(2004)	SHO



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Weldments	<p><u>Mechanical Tests</u></p> <p>Tests designated in specified welding codes as detailed below:</p> <p>Bend, Fracture, Hardness, Impact, Tensile, Macro-examination and Visual examination in accordance with specific welding codes</p>	<p>ISO 9017:2001 ISO 17639:2003 BS EN 287:Part 1:2004 BS EN ISO 9016:2011 BS EN ISO 5178:2011 BS EN ISO 4136:2011 BS EN ISO 5173:2010 BS EN ISO 17637:2011 BS EN ISO 9015-1:2011 BS EN 1320:1997 BS EN 1321:1997 BS EN ISO 9606-2:2004 BS EN ISO 15614-1:2004 BS EN ISO 15614-2:2005 ASME IX: 2010 AWS D 1.1:2000 API 1104 19th Edition 1999</p>	SHO
LIGHT and DENSE METALS and ALLOYS including castings, forgings and weldments	<p><u>Non Destructive Testing</u></p> <p>Liquid Penetrant: Colour contrast - manual application</p> <p>Ultrasonic Thickness Measurement</p>	<p>BS EN 571-1:1997 ASME V:2010</p> <p>BS EN 14127:2004</p>	SHO & C&I
FERROMAGNETIC MATERIALS	<p>Magnetic Particle: Black ink portable kit Fluorescent ink portable kit</p>	<p>BS 6072:1981 (Superseded) ASME V:2010 BS EN 1290:1998 BS EN 9934:Part 1:2001 BS EN 10228:Part 1:1999</p>	SHO & C&I
EFFLUENT ANALYSIS	<p><u>Chemical Tests</u></p> <p>Elemental Analysis Mn, S, Cr, Ni, Al, Cu, Cd, Pb, Zn, Fe, K</p> <p>Elemental Analysis Ti, Ni, V, Zn, Al, As, B, Ba, Ca, Cd, Cr, Cu, Co, Fe, K, Mg, Na</p>	<p>Documented In-House Method MD 12 using ICP-OES techniques</p> <p>Documented In-House Method MD 12 using ICP techniques</p>	SHO



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EFFLUENT ANALYSIS (cont'd) GROUNDWATER, NATURAL WATER, PROCESS WATER and EFFLUENT SAMPLES	<u>Chemical Tests</u> (cont'd)		
	COD	Documented In-House Method MD 05 using HACH techniques	SHO
	Ammoniacal Nitrogen	Documented In-House Method MD 06 using HACH techniques	SHO
	Determination to suspended solids (5 to 250 mg/l)	Documented In-House Method MD 10	SHO
	Conductivity	Documented In-House Method MD 11	
ORGANIC ANTI-CORROSION COATINGS	pH Analysis	Documented In-House Method MD 03	
	<u>Performance Tests</u>		
	Paint adhesion	Documented In-House Method SL/MET05	SHO
	Water Resistance of Coatings in 100% Relative Humidity	ASTM D2247-02	SHO
END			