

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



0453

Accredited to
ISO/IEC 17025:2005

CAPARO ENGINEERING LIMITED trading as Caparo Testing Technologies (Hartlepool)

Issue No: 024 Issue date: 20 January 2011

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Testing performed at the above address only

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS	<u>Mechanical Tests</u> Tensile at ambient temperatures (Loads up to 600 kN) Tensile at elevated temperatures up to 500°C (Loads up to 500 kN) Bend Impact: Charpy V and U notch (ambient temperatures to -196°C) Lateral Expansion Izod Vickers Hardness (HV10 & 30) Brinell testing (HBW 10/3000 & 5/750) Rockwell Hardness (HRB & C)	BS EN IS 6892-1 :2009 ASTM E8/E8M-09 ASTM A370-10 BS EN 10002-5:1992 ASTM E21-09 BS EN ISO 7438:2005 BS EN 10045-1:1990 ASTM E23-07a ASTM A370-10 ASTM E23-07a ASTM A370-10 BS 131:Part 1:1961(2007) BS EN ISO 6507-1:2005 ASTM E92-82(03) BS EN ISO 6506-1:2005 ASTM E10-10 ASTM A370-10 BS EN ISO 6508-1:2005 ASTM E18-08b



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
METALS, ALLOYS and METAL PRODUCTS (cont'd)	<u>Chemical Tests</u> Quantitative Elemental Analysis C, Si, Mn, P, S, Cr, Mo, Ni, Al, Co, Cu, Nb, Ti, V, W, Sn, B, N ₂ , Pb and As	Optical emission spectrometry to Documented In-House Method MSP/49
Austenitic Stainless Steel	<u>Corrosion Tests</u> Susceptibility to intergranular attack Pitting corrosion resistance	ASTM A262-02a(08) (Practice B and E) ASTM G28-08 ASTM G48-09 (Method A) ASTM A923-08 (Method C)
Duplex Austenitic/Ferritic stainless steels	<u>Metallurgical Tests</u> Grain size (comparative) Evaluation of Macrostructure and Microstructure	ASTM E112-96(2004) Documented In-House Method MSP/18 Documented In-House Methods MSP/38 Iss5 Rev1 _ Eaton TES-019 Rev 9 MSP/39 Iss5 Rev1 _ Volvo V2525/68 x 78 MSP/40 Iss5 Rev 0 _ DAF STD60 (24A115) MSP/41 Iss5 Rev 0 _ Caterpillar 1E106 (20T211/9) MSP/42 Iss5 Rev0 _ Cronifer 1925h (6Mo/22Cr Duplex) MSP/44 General Microstructure
Weldments	Volume Fraction <u>Mechanical & Metallurgical Tests</u> Bend, Tensile, Fracture, Hardness, Impact, Macro examination in accordance with specific welding codes	ASTM E562-08 BS EN 287-1:2004 BS EN ISO 15614-1:2004 BS EN ISO 5173 :2010 BS EN 875:1995 BS EN 876:1995 BS EN 895:1995 BS EN 1043-1:1996 BS EN 1320:1997 BS EN 1321:1997 BS 4872:Part 1:1982 ASME IX :2007
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