


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 Accredited to ISO/IEC 17025:2017	Howco Group PLC	
	Issue No: 037 Issue date: 05 February 2020	
	Fountain House 1-3 Woodside Crescent Glasgow Scotland G3 7UL	Contact: Poppy Gilbert Tel: +44 (0)1236-852219 E-Mail: poppy.gilbert@howcogroup.com Website: www.howcogroup.com
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

DETAIL OF ACCREDITATION

Howco Group PLC, UKAS reference 0742, 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 quality management system.

Laboratory locations:

Location details	Activity	Location code
Carbrook Street Sheffield South Yorkshire S9 2JN Contact: Jon Atkinson Tel: +44 (0)114-2444242 Fax: +44 (0)114-2434738 E-Mail: John.Atkinson@howcogroup.com Website: www.howcogroup.com	Corrosion, Mechanical & Metallurgical testing	A
3 Blairlinn Road Blairlinn Industrial Estate Cumbernauld Glasgow Scotland G67 2TF Contact: Poppy gilbert Tel: +44 (0)1236-454111 Fax: +44 (0)1236-454222 E-Mail: Poppy.gilbert@howcogroup.com Website: www.howcogroup.com	Corrosion, Mechanical & Metallurgical testing	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	<u>Corrosion Tests</u>		
Stainless steels	Resistance to pitting corrosion Resistance to pitting and crevice corrosion	ASTM G48 Method A ASTM G48 Methods A and B Shell Engineering Document ES/247 Shell Engineering Document DEP 30.10.03.35 EPE – (Section 6 only)	A B
	Intergranular attack	ASTM A262 - Practice A and E ASTM G28 - Method A	B
	<u>Mechanical Tests</u>		
Steels, Stainless steels and Ni alloys	Impact: Izod	BS 131 Part 1	A
	Charpy (U and V-notch) (Temperatures range -196°C and -160°C to ambient)	BS EN ISO 148-1 ASTM E23 ASTM A370	A & B
	Lateral expansion and percent shear	BS EN ISO 148-1 ASTM E23	A & B
	Crystallinity	BS 131-5	B
	Tensile (Forces up to 250 kN)	BS EN ISO 6892-1 Method B ASTM A370 ASTM E8/E8M	A
	Tensile (Forces from 0.4 kN to 500 kN)	BS EN ISO 6892-1 ASTM A370 ASTM E8/E8M	B
	Hardness		
	Rockwell (HRC) Rockwell (HRC & HRBW)	ASTM E18 ASTM A370 ASTM E18	A B
	Brinell (HBW 10/3000)	BS EN ISO 6506-1 ASTM E10	A
	Vickers	ASTM E92 BS EN ISO 6507-1	B



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Weldments	<u>Metallurgical Tests</u>		
	Grain size	BS EN ISO 643 ASTM E112 (comparative method) ASTM E1181 API 6A718 §4.2.2.2 API 6ACRA §4.4.2.2	A
	Grain size	ASTM E112 (comparative and planimetric methods) ASTM E1181 API 6A718 §4.2.2.2 API 6ACRA §4.4.2.2	B
	Inclusion content	ASTM E45 Methods A & D	A & B
	Macro assessment	A ASTM A604/A604M ASTM E381 API 6A718 §4.2.1.2 API 6ACRA §4.2.1.2	A & B
	Metallographic Examination of Deleterious Phases	API 6A718 §4.2.2.3 API 6ACRA §4.2.2.3	A & B
	Volume fraction	ASTM E562	A & B
	Tests designated in specified welding codes as detailed below:		
Bend, Hardness, Impact, Tensile, and Macro examination in accordance with specific welding codes	BS EN ISO 5173 BS EN ISO 9015-1 BS EN ISO 9016 BS EN ISO 9606-1 BS EN ISO 5178 BS EN ISO 4136 BS EN ISO 17639 BS EN ISO 15614-1 ASME BPVC-IX AWS D1.1/D1.1.M NACE MR0175 / ISO 15156-2	B	
END			