

SCOPE OF ACCREDITATION TO ISO/IEC 17025:20

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MECHANICAL

Valid To: February 28, 2025

Certificate Number 5669.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests: ~~on~~ UURXV DQG QRR IHUURXV ZHOGV SRO\PHUV HODVWRPHUV PHWDOOLF DQG QRR PHWDO

Test:	Test Method(s):
Corrosion:	
Salt Spray (Fog) Testing	\$ 6 7 0 % 9250 ; EL-M-OP-CT-AUH-MD002
Susceptibility to Intergranular Attack	ASTM G28 Method A ASTM A262 Practices A, B, C & E
Pitting Resistance	ASTM G48 Methods A, C & E ASTM A923 Method C
Sulfide Stress Cracking (SSC)	NACE TM0177; NACE TM0316; ASTM G39 EFC 16 BS EN ISO 15156-2; EL-M-OP-CO-AUH-MD009
Hydrogen Induced Cracking (HIC)	NACE TM0284 BS EN ISO 15156-2; EL-M-OP-CO-AUH-MD007
Full Ring Ovalisation	BS 8701(Excluding Non-Destructive Tests) EL-M-OP-

Test:	Test Method(s):
Vickers (5, 10 and 30 kgf Vickers Micro-indentation (0.1, 0.3, 0.5 and 1.0 kgf)	BS EN ISO 6507-1; ASTM E92 ASTM E384
Shore A & D	ASTM D2240 ISO 868
Mechanical	
Bend	BS EN ISO 7438 BS 4449:1988 (Withdrawn) ASTM A615/A615M; ISO 6935-2; BS EN ISO 15630-1; ASTM E290 DVS 2203-5
Charpy Impact including Lateral Expansion and Shear Fracture Appearance	BS EN ISO 1481; ASTM E23 ASTM A370;

Test:	Test Method(s):
Rebend	BS 4449:1997 (Withdrawn) BS 4449; BS EN ISO 15630-1:2002 (Withdrawn) BS EN ISO 15630-1:2010 (Withdrawn) BS EN ISO 15630-1; ISO 69352
Shear test	ASTM A264/A264M; ASTM A265/A265M
Fatigue	BS 4449:1997 Amd't1 (Withdrawn) BS 4449:2005+A2:2009; BS 4449; BS EN ISO 15630-1:2002 (Withdrawn) BS EN ISO 15630-1:2010 (Withdrawn) BS EN ISO 15630-1; BS 6744; ISO 69352
Projected Rib Area (Geometry)	BS 4449:1997 Amd't1 (Withdrawn) BS 4449; BS EN ISO 15630-1:2002 (Withdrawn) BS EN ISO 15630-1:2010 (Withdrawn) BS EN ISO 15630-1; ASTM A615/A615M ISO 69352
Loading Up to 1000 kN	BS EN 1241; BS EN 1433
Welding: Bend, Fillet Weld Fracture and Nib Break, Hardness, Impact, Tensile, Macro and Microstructure and CTOD testing in accordance with specific welding codes	BS EN ISO 5173 BS EN ISO 9017 BS EN ISO 9015; BS EN ISO 9016 BS EN ISO 4136 BS EN ISO 5178 BS EN ISO 17639; BS 4515-1; BS 4515-2; BS EN ISO 15614-1; BS EN ISO 15614-2; BS EN 2871; BS EN ISO 9606; BS EN ISO 9606; ASME IX; API 1104; AWS D1.1/D1.1M; BS 7448-2:1997 (withdrawn) BS EN ISO 15653; BS EN ISO 13847; ISO 5817; ASTM E340 ASTM E190

Test:	Test Method(s):
Metallurgical:	
Phase Volume Fraction	ASTM E562 EL-M-OP-MET-AUH-MD008
Grain Size (By Comparison)	ASTM E112 EL-M-OP-MET-AUH-MD007
Micro preparation and examination	ASTM E3; ASTM E407
Inclusion count	ASTM E45 EL-M-OP-MET-AUH-MD005
Degree of banding and Orientation of microstructures	ASTM E1268
Replication of microstructures	ASTM E1351 EL-M-OP-MET-AUH-MD009
Detecting Detrimental Intermetallic Phase	ASTM A923 Method A
Coatings	
Adhesive Lap Shear	ISO 218093 Annex J; EN 12068; ASTM D 1002
Holiday Detection	ISO 218093 annex C ISO 21809-1 Annex B; ASTM G62 ASTM A 775
Cathodic Disbondment Test	ISO 218093 Annex G ISO 21809-1 Annex H; ISO 21809-2 Annex A.

Test:	Test Method(s):
Adhesion test	ASTM D4541; ISO 4624; ISO 2409; ASTM D3359
PeelStrengthTest	ISO 218093 Annex H ISO 21809-1 Annex C EN 12068
Thickness	ISO 2808 method 7C ASTM B499; ASTM A775; ASTM D7091; ISO 21809-1 Annex A; ISO 218093 Annex B
Environmental Simulation	
Fluorescent Ultraviolet Light Testing	ASTM G154

Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY ME LIMITED ABU DHABI

Abu Dhabi, UAE

for technical competence in the field of

Mechanical Testing