



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ME LIMITED ABU DHABI
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MECHANICAL

Valid To: February 28, 2021

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 carbon steel, welded pipes, iron, steel bars, and manhole tops.

Test:	Test Method(s):
Corrosion:	
Susceptibility to Intergranular Attack	ASTM G28 Method A; ASTM A262 Practices A, B, C & E
Pitting Resistance	ASTM G48 Methods A, C & E
Sulfide Stress Cracking (SSC)	NACE TM0177; NACE TM0316; ASTM G39-99; EFC 16; EMT-M-OP-CO-MD009
Susceptibility to Cracking of Line Pipe Steels in Sour Service (Full Ring Ovalisation test)	HSE OTI 95 635 (Excluding Non-Destructive Tests)
Hydrogen Induced Cracking (HIC)	NACE TM0284; EMT-M-OP-CO-MD007
Full Ring Ovalisation	BS 8701; HSE OTI 95 635 (Excluding Non-Destructive Tests)
Mechanical:	
Bend	BS EN ISO 7438; BS 4449:1988 (Withdrawn) ¹ ; ASTM A615/A615M
Brinell (HB1/30)	BS EN ISO 6506-1; ASTM E10
Rockwell (B and C Scales)	BS EN ISO 6508-1; ASTM E18

Test:	Test Method(s):
Mechanical (continued):	
Vickers (10)	BS EN ISO 6507-1; ASTM E92
Charpy Impact including Expansion and Shear -196°C and (-60°C to ambient)	BS EN ISO 148-1; ASTM E23; ASTM A370
Fracture Toughness CTOD -196°C and (-60°C to ambient)	BS 7448-1
Tensile at Ambient Temperature (Up to 2000 kN)	BS EN ISO 6892-1; ASTM E8/E8M; ASTM A370; API 5L
Phase Volume Fraction	ASTM E562
Determination of Ferrite Content using Fischer Feritscope MP30	EMT-M-OP-MET-MD022
Grain Size (By Comparison)	ASTM E112
Rebend	BS 4449:1997 (Withdrawn) ¹ ; BS 4449:2005+A3:2016; BS 4449; BS EN ISO 15630-1:2002 (Withdrawn) ¹ ; BS EN ISO 15630-1:2010 (Withdrawn) ¹ ; BS EN ISO 15630-1
Tensile	BS 4449:1997 (Withdrawn) ¹ ; BS 4449:2005+A3:2016; BS EN ISO 15630-1:2002 (Withdrawn) ¹ ; BS EN ISO 15630-1:2010 (Withdrawn) ¹ ; ASTM A615/A615M
Fatigue	BS 4449:1997 Amd't1 (Withdrawn) ¹ ; BS 4449:2005+A2:2009; BS 4449; BS EN ISO 15630-1:2002 (Withdrawn) ¹ ; BS EN ISO 15630-1:2010 (Withdrawn) ¹ ; BS EN ISO 15630-1; BS 6744
Projected Rib Area (Geometry)	BS 4449:1997 Amd't1 (Withdrawn) ¹ ; BS 4449:2005+A3:2016; BS 4449; BS EN ISO 15630-1:2002 (Withdrawn) ¹ ; BS EN ISO 15630-1:2010; BS EN ISO 15630-1
Loading Up to 1000 kN	BS EN 124; BS EN 1433

Test:	Test Method(s):
Mechanical (continued):	
Welding: Bend, Fillet Weld Fracture and Nick 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 9015-1; 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 287-1; BS EN ISO 9606-1; BS EN ISO 9606-2; ASME IX; API 1104; AWS D1.1/D1.1M; BS 7448-2:1997 (withdrawn) ¹ ; BS EN ISO 15653

CHEMICAL

Test(s):	Test Method(s):
Optical Emission Spectroscopy:	
Plain Carbon, Low Alloy and Stainless Steels	EMT-M-OP-CH-AUH-MD101; EMT-M-OP-CH-AUH-MD107
Nickel alloys	EMT-M-OP-CH-AUH-MD110; EMT-M-OP-CH-AUH-MD101
Aluminum alloys	EMT-M-OP-CH-AUH-MD101
Carbon and Sulfur Content	EMT-M-OP-CH-AUH-MD129
Nitrogen Content	EMT-M-OP-CH-AUH-MD128



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY ME LIMITED ABU DHABI

Abu Dhabi, United Arab Emirates

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 28th day of October 28, 2019

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.01
Valid to February 28, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.