



Accredited Laboratory

A2LA has accredited

ELEMENT DOHA LLC

Doha, Qatar

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 8th day of March 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.09
Valid to February 28, 2023

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT DOHA LLC
Street 46, Gate 16
Salwa Industrial Area
Doha, Qatar
Neil Hold Phone: 974 4460 3202
Email: info.doha@element.com

MECHANICAL

Valid To: February 28, 2023

Certificate Number: 5669.09

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metals, alloys, welded joints, manhole tops, rubbers, and elastomers:

<u>Test(s):</u>	<u>Test Method(s):</u>
Corrosion:	
Pitting Resistance	ASTM G48 Methods A
<u>Mechanical Tests</u>	
Rockwell (B and C Scales)	BS EN ISO 6508-1; ASTM E18
Vickers (HV5 & 10)	BS EN ISO 6507-1; ASTM E92
Charpy Impact including Expansion and Shear (-196 °C and -101°C to ambient)	BS EN ISO 148-1; ASTM A370; ASTM E23
Fracture Toughness CTOD (77K to ambient)	BS 7448-1:1991 (Withdrawn) ¹ BS 7448-2:1997 (Withdrawn) ¹ ISO 12135; ISO 15653; ISO 27306
Tensile at Ambient Temperature (Up to 1000 kN)	BS EN ISO 6892-1; ASTM E8/E8M; ASTM A370; API 5L
Determination of Ferrite Content Fischer Feritscope MP30	EMT-M-OP-MET-DOH-MD022

<u>Test(s):</u>	<u>Test Method(s):</u>
Metallic Coating-Hot Dip Galvanized Coating Thickness (stripping method)	BS EN ISO 1460 ASTM A90
Metallographic Preparation	ASTM E3
Grain Size (By Comparison)	ASTM E112
Replica Surface Microstructure	ASTM E1351; EMT-M-OP-MET-DOH-MD009
Bend	BS 4449:1988 (Withdrawn) ¹ ; ASTM A615/A615M
Rebend	BS EN ISO 15630-1; BS 4449:1997 (Withdrawn) ¹ ; BS 4449
Tensile	BS EN ISO 15630-1; BS 4449:1997 (Withdrawn) ¹ ; BS 4449; ASTM A615/A615M
Bolts and Studs (In full Section and Machined test Pieces) Tensile	BS EN ISO 898-1 ASTM F606/F606M
Multi Wire Steel Strand Tensile Strength	BS EN ISO 15630-3 ASTM A1061/A1061M
Metallic Fiber Concrete Measuring Flexural Tensile Strength (Limit Proportionality, Residual)	BS EN 14651
Manhole Tops Loading Deflection (up to 1000 kN)	BS EN 124-1
HDPE Pipe (Weld Sample) Tensile	BS ISO 13953
Rubbers / Elastomers Hardness (Shore D Scale)	ASTM D2240

<u>Test(s):</u>	<u>Test Method(s):</u>
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 4136; BS EN ISO 5173; BS EN ISO 5178; BS EN ISO 9017; BS EN ISO 9015-1; BS EN ISO 9606-1; BS EN ISO 9606-2; BS EN ISO 15614-1; BS EN ISO 15614-2; BS EN ISO 15653 BS EN ISO 17639; BS EN 287-1; BS 4515-1; BS 4515-2; ASME IX; API 5L; API 1104; AWS D1.1/D1.1M; BS 7448-2:1997 (Withdrawn) ¹ ;

¹This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

