



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY SAN BERNARDINO

3505 East 3<sup>rd</sup> Street

San Bernardino, CA 92408

Mr. Raouf Naguib

Email: Raouf.Naguib@element.com

MECHANICAL

Valid To: June 30, 2025

Certificate Number: 0214.45

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on automotive, telecommunications, and aerospace components:

**Test Technology**<sup>1</sup>:

**Environmental Exposure**

High Temperature

11 lbs/second GN2 – to 550 °F

up to 500 psi;

3.2 lbs/seconds GOx – to 700 °F

up to 5000 psi;

9 lbs/second CO2 – to 1300 °F

up to 4600 psi;

0.5 lbs/second CH4 – to 315 °F

up to 4400 psi

Low Temperature

To -452 °F

Using He, H2, N2

Thermal Shock Testing

(-425 to 560) °F – GN2

Pressure (Burst) Testing

2500 psi (up to 1400 °F) – GN2

Noise and Vibration Testing

10 Hz to 20 kHz

**Test Method(s)**<sup>2</sup>:

NTS Test Procedure Number TP053205-1 for Nitrogen;

NTS Test Procedure Number T29440-03 for Oxygen

NTS Test Procedure Number PR047590-01

NTS Test Procedure Number TP053205-1

NTS Test Procedure Number T079723-4

MIL-STD-1474 (Appendix E);

MIL-STD-740-1 (SH);

MIL-STD-740-2 (SH)

**Test Technology** <sup>1</sup>:

**Fluid Flow**

Gas and Fluid Flow  
(GN2)  
To 1600 SCFM

Pressure Drop  
(GHe)

Leakage  
(GHe to 20 SLPM)

**Test Method(s)** <sup>2</sup>:

NTS Test Procedure Number TP PR029362-03

NTS Test Procedure Number 6208-1 REV B

T201-10704-1 REV A

<sup>1</sup> Also using customer specified methods directly related to the technologies above and within the parameters above.

<sup>2</sup> When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.



## Accredited Laboratory

A2LA has accredited

**ELEMENT MATERIALS TECHNOLOGY SAN BERNARDINO**

*San Bernardino, CA*

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 22<sup>nd</sup> day of September 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0214.45  
Valid to June 30, 2025  
Revised November 8, 2023

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