

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY SAN BERNARDINO

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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 1: Test Method(s) 2:

Environmental Exposure

High Temperature 11 lbs/second GN2 – to 550 °F up to 500 psi; $3.2 \text{ lbs/seconds GOx} - \text{to } 700 \,^{\circ}\text{F}$ 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

 $(-425 \text{ to } 560) \, ^{\circ}\text{F} - \text{GN2}$

Pressure (Burst) Testing 2500 psi (up to 1400 °F) – GN2

Noise and Vibration Testing 10 Hz to 20 kHz

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)

(A2LA Cert. No. 0214.45) Revised 11/08/2023

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<u>Test Technology</u> ¹: <u>Test Method(s)</u> ²:

Fluid Flow

Gas and Fluid Flow NTS Test Procedure Number TP PR029362-03

(GN2)

To 1600 SCFM

Pressure Drop NTS Test Procedure Number 6208-1 REV B

(GHe)

Leakage T201-10704-1 REV A

(GHe to 20 SLPM)

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

² 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 22nd day of September 2023.

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.