



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY TEMPE  
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MECHANICAL

Valid To: March 31, 2028

Certificate Number: 0214.10

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

<b><u>Tests:</u></b>	<b><u>Test Specifications/Methods</u> <sup>1</sup>:</b>
Vibration (Sine, Random and Combined) <sup>2</sup> (5 to 3000) Hz 1" stroke 24,000 lbs. Force to 100 g's	MIL-STD-750 C, D, E, F (Methods 2046, 2056, 2057); MIL-STD-167A (Method I); MIL-STD-810 Base, A, B, C, D, E, F, G, H (Methods 514, 519, 526); MIL-STD-202 E, F, G (Methods 201, 203, 204, 214); MIL-STD-1344A (through Notice 6), (Method 2005); MIL-STD-1576 Base (Method 3113); MIL-STD-1540 B, C, D; RTCA/DO-160 B, C, D, E, F, G (Section 8); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005
Vibration Shock <sup>2</sup> (5 to 3000) Hz 1" stroke 24,000 lbs. Force to 100 g's	MIL-STD-202 E, F, G (Method 213); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 516); MIL-STD-1344A (through Notice 6), (Method 2004); RTCA/DO-160 B, C, D, E, F, G (Section 7); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005
Mechanical (Drop) Shock <sup>2</sup> (12, 20 & 40) ft. drop towers	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 516); MIL-STD-202 E, F, G (Method 213); MIL-STD-1344A (through Notice 6) (Method 2004); MIL-STD-1576 Base (Method 3114); SAE/USCAR 24 (Inflator Requirements), June 2004
(Beam) Shock <sup>2</sup> Air Cannon, Beam	MIL-STD-1576 Base (Method 3114)



<b>Tests:</b>	<b>Test Specifications/Methods <sup>1</sup>:</b>
Acceleration <sup>2</sup> r = 12"; RPM=2000 r = 34"; RPM=400 r = 56"; RPM=150	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 513); MIL-STD-202 E, F, G (Method 212); MIL-STD-1344A (through Notice 6), (Method 2011); RTCA/DO-160 B, C, D, E, F, G (Section 7); SAE/USCAR 28 (Initiator Requirements), June 2005
<b>Environmental</b>	
Temperature Altitude <sup>2</sup> (0 to 100,000) Feet (-72 to 150) °C	MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 500); MIL-STD-202 E, F, G (Method 105); RTCA/DO-160 B, C, D, E, F, G (Section 4); SAE/USCAR 28 (Initiator Requirements), June 2005
High Temperature <sup>2</sup> 200 °C chamber	MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 501); MIL-STD-202 E, F, G (Method 108); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005
Low Temperature <sup>2</sup> (To -176 °C)	MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 502)
Temperature Shock <sup>2</sup> (-176 to 200) °C	MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 503); MIL-STD-202 E, F, G (Method 107); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005
Thermal Vacuum <sup>2</sup> 1x 10 <sup>-5</sup> torr (or better) (-150 to 175) °C	SCGPS56054
Temperature/Humidity <sup>2</sup> (10 to 95) %RH	RTCA/DO-160 B, C, D, E, F, G (Section 6); MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 507); MIL-STD-202 E, F, G (Method 103); MIL-STD-1344A (through Notice 6), (Method 1002); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005
Temperature Cycling <sup>2</sup> (-176 to 200) °C	MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 520); MIL-STD-1344A (through Notice 6), (Method 1003); RTCA/DO-160 B, C, D, E, F, G (Section 5)
Explosive Atmosphere	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 511); RTCA/DO-160 B, C, D, E, F, G (Section 9)

<b><u>Tests:</u></b>	<b><u>Test Specifications/Methods</u> <sup>1</sup>:</b>
Rapid Decompression	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 500); RTCA/DO-160 B, C, D, E, F, G (Section 4)
Immersion	MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 512); MIL-STD-202 E, F, G (Method 104); MIL-STD-1344A (through Notice 6), (Method 1016)
Fluid Susceptibility	MIL-STD-810 F, G, H, Method 504); RTCA/DO-160 B, C, D, E, F, G (Section 11)
Solar Radiation/Sunshine	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 505)
Salt Fog/Spray	MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 509); MIL-STD-1344A (through Notice 6), (Method 1001); RTCA/DO-160 B, C, D, E, F, G (Section 14); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005; MIL-STD-202 E, F, G (Method 101); ASTM B117-73, -94, -97, -02, -03, -07, -09, -11, -16, -18, -19
Rain/Drip/Blowing Rain <sup>2</sup> (Up to 40mph)	RTCA/DO-160 B, C, D, E, F, G (Section 10); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 506)
Freezing Rain	RTCA/DO-160 B, C, D, E, F, G (Section 24); MIL-STD-810 Base, A, B, C, D, E, F, G, H, (Method 521)
Combined Environments (Temperature, Humidity, Altitude)	RTCA/DO-160 B, C, D, E, F, G, (Section 4); MIL-STD-810 Base, A, B, C, D, E, F, G, H (Method 520); SAE/USCAR 24 (Inflator Requirements), June 2004; SAE/USCAR 28 (Initiator Requirements), June 2005
Sand and Dust	MIL-STD-810 Base, A, B, C, D, E, F, G, H Method 510); RTCA/DO-160 B, C, D, E, F, G (Section 12); MIL-STD-202 E, F, G (Method 110); SAE J1211 (Section 4.5), Nov. 78 (dust only); SAE J1455 (Section 4.7), Aug. 94 (dust only)
Dust Ingress	IEC 60529, ISO 20653 IP5X, IP6X
Water Ingress	IEC 60529, ISO 20653 IPX3, IPX4, IPX5, IPX6, IPX7, IPX8

<sup>1</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 test method, per Annex A, Part C of A2LA's *R101 - General Requirements: Accreditation of Conformity Assessment Bodies*.

<sup>2</sup> Also using customer specific test methods utilizing any combination of test equipment parameters listed above.

Uncontrolled If Printed



# Accredited Laboratory

A2LA has accredited

## ELEMENT MATERIALS TECHNOLOGY TEMPE

Tempe, AZ

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 27<sup>th</sup> day of May 2026.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0214.10  
Valid to March 31, 2028

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