SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER
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MECHANICAL

Valid To: February 28, 2027 Certificate Number: 7039.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on the following types of products and materials: Aerospace components, Military equipment, Nuclear equipment, Commercial and Automotive components.

For the following types of industries: Aerospace, Defense, Nuclear, Telecommunications, Electrical, Electronics, Automotive, Information Processing and Scientific Instruments.

| **Test Description:** | **Test Method(s)[1]:** |
|---|---|
| Leakage (Immersion)[2,3] | MIL-STD-810, Method 512;<br>SAE AS 2078, Section 4.6 |
| Explosive Atmosphere[2,3] | MIL-STD-810, Method 511;<br>RTCA/DO-160, Section 9 |
| Fire Resistance/Fire Proofness[2,3] | SAE AS 4273;<br>ISO 2685;<br>SAE AS 1055;<br>SAE AIR 1377A;<br>DOT/FAA AC 20-135;<br>RTCA/DO-160, Section 26;<br>Rolls-Royce Spec. MTR00072;<br>Rolls-Royce Spec. FVR08366;<br>Rolls-Royce Spec. JES 314-1 |
| Continuous Flow/Endurance/Performance[2]<br>*Liquid: (Up to 1,000) GPM,*<br>*(Up to 8,000) psi,*<br>*-100° to 800°F* | ARP492 Continuous Flow;<br>MIL-E-5007,<br>Section 4.6.2.2.5 High Temp Endurance,<br>Section 4.6.2.2.6 Room Temp,<br>Endurance/Contamination,<br>Section 4.6.2.2.7 Low Temp Endurance,<br>Section 4.6.2.2.8 Fuel Pump Cavitation,<br>Section 4.6.2.2.9 Low Lubricity Fuel Test |

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| **Test Description:** | **Test Method(s)[1]:** |
|---|---|
| Continuous Flow/Endurance/Performance[2]<br>*Gas: (1 to 1,000) PPM,*<br>*(Up to 500) psi, (-320 to 2,000) ºF,*<br>*Thermal Cycling: (0-1.4 million BTUs/m)* | ER8559 PW800 Fuel System Transient Ice Test Plan;<br>GEnx MFO QTS |
| Hydrostatic/Pneumatic Proof, Burst and Pressure Decay[2]<br>*(60,000 psi max Hydrostatic)*<br>*(30,000 psi max Pneumatic Static)* | SAE AS 2078, Sections 4.7 Proof Pressure, Section 4.8 Burst Pressure |
| Fuel Icing[2] | SAE ARP 1401 |
| Impulse[2] | SAE ARP 603;<br>SAE ARP 1383;<br>SAE AS 2078 Section 4.9 |
| Acceleration[2,3] | MIL-STD-202, Method 212,<br>*(Test Conditions A and C only)*;<br>MIL-STD-810, Method 513;<br>MIL-E-5272, Rev. C, 22 Jan 71, Para. 4.16 |
| Vibration[2,3]<br>Up to 44,000 lbf | RTCA/DO-160, Section 8;<br>MIL-STD-202, Methods 201, 204, and 214;<br>MIL-STD-810, Methods 514, and 516;<br>MIL-E 5272, Rev. C, 22 Jan 71, Para. 4.7;<br>IEC 68-2-6, IEC 68-2-34 |
| Shock[2,3]<br>Up to 40,000 g | RTCA/DO-160, Section 7;<br>MIL-STD-202, Methods 202, 205, and 213 (higher levels need drop tower);<br>MIL-STD-810, Methods 514, 516, Procedures I, II, III, and V;<br>IEC 68-2-27 |
| SRS[2,3]<br>Up to 250 g<br>(5 to 2500) Hz | MIL-STD-810, Method 516 |

[1] 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 *R101 - General Requirements: Accreditation of Conformity Assessment Bodies.*

[2] Including customer-supplied specifications directly related to the test technologies and parameters listed above.

[3] Note: This lab is capable of performing current and older versions of MIL-STD-810 (versions B through H) and RTCA/DO-160 (versions B through G) for the methods listed above. The methods listed above on this scope are accredited.

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# Accredited Laboratory

A2LA has accredited

## ELEMENT MATERIALS TECHNOLOGY - JUPITER

*Jupiter, FL*

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 10th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7039.01
Valid to February 28, 2027

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

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