



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER

15814 Corporate Circle

Jupiter, FL 33478

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MECHANICAL

Valid To: February 28, 2025

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;
SAE AS 2078, Section 4.6

Explosive Atmosphere^{2,3}

MIL-STD-810, Method 511;
RTCA/DO-160, Section 9

Fire Resistance/Fire Proofness^{2,3}

SAE AS 4273;
ISO 2685;
SAE AS 1055;
SAE AIR 1377A;
DOT/FAA AC 20-135;
RTCA/DO-160, Section 26;
Rolls-Royce Spec. MTR00072;
Rolls-Royce Spec. FVR08366;
Rolls-Royce Spec. JES 314-1

Continuous Flow/Endurance/Performance²

*Liquid: (Up to 1,000) GPM,
(Up to 5,000) psi,
-100° to 800°F*

ARP492 Continuous Flow;
MIL-E-5007,
Section 4.6.2.2.5 High Temp Endurance,
Section 4.6.2.2.6 Room Temp,
Endurance/Contamination,
Section 4.6.2.2.7 Low Temp Endurance,
Section 4.6.2.2.8 Fuel Pump Cavitation,
Section 4.6.2.2.9 Low Lubricity Fuel Test

Test Description:

Test Method(s)¹:

Continuous Flow/Endurance/Performance²
*Gas: (1 to 1,000) PPM,
(Up to 500) psi, (-320 to 2,000) °F,
Thermal Cycling: (0-1.4 million BTUs/m)*

ER8559 PW800 Fuel System Transient Ice Test
Plan;
GENx MFO QTS

Hydrostatic Pressure/Burst/Pressure²
(60,000 psi max)

SAE AS 2078, Sections 4.7 Proof Pressure,
Section 4.8 Burst Pressure

Pneumatic Static Pressure/Burst/Pressure/ Pressure
Decay²
(30,000 psi max)

SAE AS 2078 Section 4.7 Proof Pressure,
Section 4.8 Burst Pressure

Fuel Icing²

SAE ARP 1401

Impulse²

SAE ARP 603;
SAE ARP 1383;
SAE AS 2078 Section 4.9

ACOUSTICS & VIBRATION

Test Description:

Test Method(s)¹:

Acceleration^{2,3}

MIL-STD-202, Method 212,
(Test Conditions A and C only);
MIL-STD-810, Method 513;
MIL-E-5272, Rev. C, 22 Jan 71, Para. 4.16

Vibration^{2,3}
32,000 lbf

RTCA/DO-160, Section 8;
MIL-STD-202, Methods 201, 204, and 214;
MIL-STD-810, Methods 514, and 516;
MIL-E 5272, Rev. C, 22 Jan 71, Para. 4.7;
IEC 68-2-6, IEC 68-2-34

Shock^{2,3}
Up to 40,000 g

RTCA/DO-160, Section 7;
MIL-STD-202, Methods 202, 205, and 213
(higher levels need drop tower);
MIL-STD-810, Methods 514, 516, Procedures I, II,
III, and V;
IEC 68-2-27

SRS^{2,3}
Up to 250 g
(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 measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

² Using customer-specified test methods utilizing any combinations of test equipment 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.



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 6th day of February 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 7039.01
Valid to February 28, 2025

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