

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER 15814 Corporate Circle Jupiter, FL 33478 Ingrid Miller Phone: 561-776-7339 Ingrid.miller@element.com

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: <u>Aerospace</u> components, Military equipment, Nuclear equipment, Commercial and Automotive components.

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

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 ARP492 Continuous Flow;

Liquid: (Up to 1,000) GPM, MIL-E-5007,

(*Up to 8,000*) *psi*, Section 4.6.2.2.5 High Temp Endurance, -100° to 800°F Section 4.6.2.2.6 Room Temp,

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

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Test Description:

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)

Test Method(s)¹:

ER8559 PW800 Fuel System Transient Ice Test

Plan:

GEnx MFO QTS

Hydrostatic/Pneumatic Proof, Burst and Pressure

Decay²

(60,000 psi max Hydrostatic) (30,000 psi max Pneumatic Static) SAE AS 2078, Sections 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

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}

Up to 44,000 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

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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.



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

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