

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER

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MECHANICAL

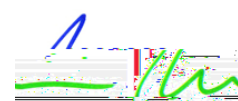
Valid To: February 28, 2025

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:



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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
8q72.7CID 128 BDC4rsCTE2E

Fuel Icing²

SAE ARP 1401

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

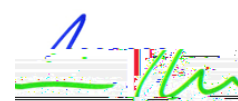
RTCA/DO-160, Section 8;
MIL-STD-202, Methods 201, 204, and 214;
MIL-STD-810, Methods 514, and 516;
MIL-E 5272, Rev. C, 22 Jan 71, Para. 4.7;
IEC 68-2-6, IEC 68-2-34

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

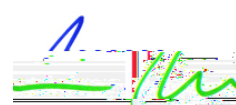
MIL-STD-810, Method 516



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.



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