



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

DAYTON T. BROWN, INC.
Bohemia, NY

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 January 2009*).



Presented this 13th day of March 2009.

A handwritten signature in cursive script, reading "Peter Abney".

President

For the Accreditation Council

Certificate Number 0767.03

Valid to December 31, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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MECHANICAL

Valid To: December 31, 2010

Certificate Number: 0767.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following mechanical tests on Military, Aerospace, Automotive and Commercial Products:

Altitude - 14.1 Meters (-282 Feet to 122,000 Meters); 400,000 Feet or 5×10^{-6} TORR

Chamber Volumes up to 745 Cubic Feet

Combined Environments - Vibration and Temperature

Durability

Dye Penetrant

Explosive Environment - Chamber Volume 75 Cubic Feet, Altitudes up to 50,000 Feet

Fungus Test Area Size 36 in x 36 in

Temperature and Humidity - Relative Humidity Range from Desert (5% RH @ 120°F) to a Tropical Forest (100% RH @ 65F to 165°F)

Chamber volumes up to 3500 Cubic Feet

Magnetic Particle Inspection

Salt Fog/Spray Chamber up to a Chamber Volume of 2500 Cubic Feet

Sand & Dust Chamber Volumes up to 200 Cubic Feet; Velocities up to 5700 Feet/Minute

Seat Belt Assembly Testing

Thermal Shock

Sun/Solar Radiation

Temperature - Chambers from 64 Cubic Feet to 3500 Cubic Feet;

Ambient temperatures from (-300 to 350)°F

Water Immersion

Wind and Rain

Using the following specifications directly related to the above listed testing parameters and technologies:

Test Technology

Test Method(s)

Low Pressure (Altitude) MIL-STD-810 C (500.1), D (500.2), E (500.3), F (500.4)

High Temperature MIL-STD-810 C (501.1), D (501.2), E (501.3), F (501.4)

Low Temperature MIL-STD-810 C (502.1), D (502.2), E (502.3), F (502.4)

<u>Test Technology</u>	<u>Test Method(s)</u>
Temperature Shock	MIL-STD-810 C (503.1), D (503.2), E (503.3), F (503.4); MIL-STD-202 (107G)
Temperature/Altitude	MIL-STD-810 C (504.1); RTCA/DO-160E (4.0)
Temperature Variation	RTCA/DO-160E (5.9)
Solar Radiation (Sunshine) (<i>Except UV</i>)	MIL-STD-810 C (505.1), D (505.2), E (505.3), F (505.4)
Rain	MIL-STD-810 C (506.1), D (506.2), E (506.3), F (506.4)
Humidity	MIL-STD-810 C (507.1), D (507.2), E (507.3), F (507.4); MIL-STD-202 (103B); RTCA/DO-160E (6.0)
Fungus	MIL-STD-810 C (508.1), D (508.2), E (508.4), F (508.5); RTCA/DO-160E (13.0)
Salt Fog	MIL-STD-810 C (509.1), D (509.2), E (509.3), F (509.4); MIL-STD-202 (101D)
Dust (Fine Sand)	MIL-STD-810 C (510.1), D (510.2), E (510.3), F (510.4); MIL-STD-202 (110A); RTCA/DO-160C (12.0)
Explosive Atmosphere	MIL-STD-810 C (511.1), D (511.2), E (511.3), F (511.4); MIL-STD-202 (109B); RTCA/DO-160E (9.0)
Leakage (Immersion)	MIL-STD-810 C (512.1), D (512.2), E (512.3), F (512.4)
Space Simulation (Unmanned Test)	MIL-STD-810 C (517.2)
Temperature/Humidity/Altitude	MIL-STD-810 C (518.1)
Temperature/Humidity/Vibration	MIL-STD-810 D (520.0), E (520.1), F (520.2)
Icing/Freezing Rain	MIL-STD-810 D (521.0), E (521.1), F (521.2)
Magnetic Particle	ASTM E1444
Dye Penetrant	ASTM E1417
Shock and Crash Safety	RTCA/DO-160E (7.0)
Waterproofness	RTCA/DO-160E (10.0)

<u>Test Technology</u>	<u>Test Method(s)</u>
Fluid Susceptibility	RTCA/DO-160E (11.0)
Salt Spray	RTCA/DO-160E (14.0); ASTM B117; ASTM G85
Seat Belt Testing	FMVSS 209: S4.1 Paragraphs (d) Hardware, (h) Webbing, (i) Strap, (j) Marking and (m) Workmanship; S4.2 Requirements For Webbing (<i>excluding paragraph (f) Resistance to Micro-Organisms</i>), S4.3 Requirements for Hardware; S4.4 Requirements for Assembly Performance
Transportation Seal Tensile Test	ISO/PAS 17712:2005, 5.2; ASTM F1157
Transportation Seal Shear	ISO/PAS 17712:2005, 5.3; ASTM F1157
Transportation Bend Test	ISO/PAS 17712:2005, 5.4; ASTM F1157
Transportation Impact Test	ISO/PAS 17712; ASTM F1157