



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NTS LABS, LLC ROCKFORD
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MECHANICAL

Valid to: February 29, 2024

Certificate Number: 0214.54

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on industrial drives, tractor components, automotive system and subsystems, consumer electronics, and electrical power/distribution equipment:

Test Technology/Description:

Test Method(s) ¹:

Fluid/Solvent/Chemical Resistance

RTCA/DO-160, Section 11;
MIL-STD-202, Method 215;
MIL-STD-810, Method 504

Temperature/Humidity

Temperature: (20-150) °C
RH: (5-98) % RH
Temperature at 95 °C: 95% RH

RTCA/DO-160, Section 6;
MIL-STD-810, Method 507;
MIL-STD-202, Method 103

Temperature/Thermal Cycle/Thermal Shock

Temperature and Thermal Cycle: (-50 to 150) °C
Thermal Shock: (-55 to 150) °C

RTCA/DO-160, Sections 4 & 5;
MIL-STD-810, Method 520;
MIL-STD-810, Method 501;
MIL-STD-810, Method 502;
MIL-STD-810, Method 503

Altitude/Decompression

(Up to 70,000 feet)

RTCA/DO-160, Section 4;
MIL-STD-810, Method 520;
MIL-STD-810, Method 505;
MIL-STD-202, Method 105

Icing Test

RTCA/DO-160, Section 24;
MIL-STD-810, Method 521

Vibration / Shock ²

(5 to 2500) Hz
2-inch Peak to Peak Displacement
25,000 pounds Force
Up to 100 g Shock
Up 18 milliseconds Duration

RTCA/DO-160, Sections 7 & 8;
MIL-STD-810, Method 520;
MIL-STD-202, Method 201;
MIL-STD-202, Method 202;
MIL-STD-202, Method 204;
MIL-STD-202, Method 213;

(A2LA Cert. No. 0214.54) Revised 10/11/2022

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Test Technology/Description:

Combined Environment (-40 to 150) °C

Acceleration

(Centrifuge up to 50g acceleration)

Highly Accelerated Life Test (HALT) – Highly Accelerated Stress Screening (HASS)

Temperature (-100-200) °C

Temperature Ramp Rate: 60°C/min

Vibration: 50 G's

5-10,000 Hz

Acoustics

Salt Fog

Test Method(s) ¹:

MIL-STD-202, Method 214

MIL-STD-202, Method 212;

MIL-STD-810, Method 513

Qualmark HALT Guidelines 933-0336;

GMW3172;

IEC 60068-2-14;

IPC9592A

MIL-STD-810 Method 515;

ISO 3744;

ISO 3746;

ISO 3740:2000

RTCA/DO-160 Section 14;

MIL-STD-810, Method 509;

MIL-STD-202, Method 101

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 Also using customer specifications based on the above standards and within the listed parameters.



Accredited Laboratory

A2LA has accredited

NTS LABS, LLC ROCKFORD

Rockford, IL

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 June 2022.



A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0214.54
Valid to February 29, 2024
Revised October 11, 2022

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