



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CKC LABORATORIES, INC.  
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MECHANICAL

Valid to: March 31, 2021

Certificate Number: 0803.09

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Environmental tests:

Test Description/ Parameters <sup>1</sup>	Methods
Corrosion Testing	ASTM G85-S
Salt Fog/Salt Spray	ASTM B117; DIN50021-S; IEC 60945 Ed 4, Section 8.12; RTCA/DO-160 Section 14 (Category S and T); MIL-STD 202 Method 101E; MIL-STD 810 Method 509
Dust	IEC 60529 Section 13; MIL-STD 202 Method 110A; MIL-STD 810 Method 510, Procedure I and II; RTCA/DO-160 Section 12.4 (Category D and S); JDQ 53.3
High and Low Temperature: (-77 to 177) °C	IEC 60945/Ed4 Sections 8.2, 8.4; MIL-STD-202 Method 108A; MIL-STD-810 Methods 501, 502, 521; RTCA/DO160 Sections 4.5.1, 4.5.2, 4.5.3, 4.5.4, 4.5.5, 5, 24 (Category A & C); JDQ 53.3
Humidity	DIN 50017-S; MIL-STD-810 Method 507; IEC 60945/Ed4 Sections 8.3; MIL-STD-202 Methods 103B and 106G; RTCA/DO-160 Section 6; JDQ 53.3
Thermal Shock:	IEC 60945/Ed4 Sections 8.5; MIL-STD-202 Method 107G; MIL-STD-810 Method 503; JDQ 53.3

Test Description/ Parameters <sup>1</sup>	Methods
Vibration: Up to 15000 lbf (3 to 2,500) Hz with Combined Environments of (-77 to 177) °C; (10 to 95) %RH; Acceleration up to 100 g	IEC 60945/Ed4 Section 8.7; MIL-STD 202 Methods 106G and 201A, Method 204D, 214A; MIL-STD-810 Methods 514 and 516, Procedures IV and VI; RTCA/DO160 Section 8; MIL-STD-167; IEC 60068-2-6/Ed7; EN 60068-2-6:2008; IEC 60068-2-64/Ed2; EN 60068-2-64:2008; JDQ 53.3
Shock: Up to 100 g; 1/2 Sine < 1 ms to 35m/s at Terminal Peak	MIL-STD- 202 Method 213B (higher levels need drop tower); MIL-STD-810 Method 514; MIL-STD-810 Method 516, Procedures I, II, III, and V, RTCA/DO160 Section 7.2, 7.3.1/SRS – MIL-STD-810– MIL-STD-810 – MIL-STD-810; IEC 60068-2-27/Ed4; EN 60068-2-27:2009; JDQ 53.3
Altitude up to 200,000 feet	RTCA/DO160 Section 4; MIL-STD-810
Acceleration/Crash Safety (0 to 20) g	MIL-STD 810 Method 513; RCTA/DO-160 Section 7.3.3
Fungus	MIL-STD-810 Method 508; RCTA DO 160 Section 13
Immersion	MIL-STD 810 Method 512; IEC 60945 Ed 4, Section 8.9; JDQ 53.3
Explosive Atmosphere	MIL-STD 810 Method 511; RTCA/DO-160, Section 9
Icing/Freezing Rain	MIL-STD-810, Method 521; RTCA/DO-160, Section 24
Contamination by Fluids/Fluid Susceptibility	MIL-STD 810, Method 504; RTCA/DO-160, Section 11; JDQ 53.3
Drop Test	IEC 60945/Ed4, Section 8.6.1
Waterproofness	RTCA/DO-160 Sections 10.3.1, 10.3.3, 10.3.4; IEC 60529, Section 14; JDQ 53.3



Test Description/ Parameters <sup>1</sup>	Methods
Mixed Flowing Gas	ASTM B845; ASTM B827; IEC 60068-2-60/Ed3; EN 60068-2-60:2015; Ford ES-2L2T-14K147-AA; JDQ 53.3; MBN MV 124-2; 8A00Z-T20A-000
Flammability	RTCA/DO-160 Section 26.6; 14 CFR Part 25, Appendix F, Part 1; DOT/FAA/AR-00/12 Sections 1.0, 2.0, 3.0, 4.0

<sup>1</sup> Also using customer specific test methods utilizing any combination of test equipment parameters listed above.

For the following types of industries:

Aerospace; Defense; Telecommunications; Electrical; Electronics; Automotive; Information Processing and Scientific Instruments.





## *Accredited Laboratory*

A2LA has accredited

**CKC LABORATORIES, INC.**

*Bothell, WA*

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 13<sup>th</sup> day of May 2019.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0803.09  
Valid to March 31, 2021

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