



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**University of Dayton Research Institute
Coatings, Corrosion and Erosion Group**

**2700 D Street
Building 1661, Room C-110
WPAFB, OH 45433**

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 04 December 2023

Certificate Number: L1189-1



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

**University of Dayton Research Institute
Coatings, Corrosion and Erosion Group**

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TESTING

Valid to: **December 4, 2023**

Certificate Number: **L1189-1**

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Accelerated Weathering UV Condensation	ASTM D4587; ASTM G154; ISO 16474-3 – (Method A - Cycle 1), (Method C - Cycle 4)	Coated Panel-Dry Film	
Accelerated Weathering Xenon-Arc	ASTM G 155; MIL-PRF-85285 (par 4.6.9); MIL-PRF-32239 (par 4.6.17.1)	Coated Panel-Dry Film	
Adhesion, Tape	ASTM D 3359; ISO 2409	Coated Panel-Dry Film	0-5
Adhesion, Tensile	ASTM D4541	Coated Panel-Dry Film	Up to 2 400 psi
Adhesion, Wet Tape	MIL-PRF-85285 (par 4.6.6); MIL-PRF-32239 (par 4.6.13); MIL-PRF-23377 (par 4.5.4); FTMS141-Method 6301	Coated Panel-Dry Film	(0-5) A
Chipping Resistance	ASTM D3170	Coated Panel-Dry Film	
Cleanability	MIL-PRF-85285 (par 4.6.13); MIL-PRF-32239 (par 4.6.23)	Coated Panel-Dry Film	Up to 100%
Color (CIELAB)	ASTM D 2244	Coated Panel-Dry Film	(400-700) nm
Corrosion, Filiform	ASTM D 2803; NAS 1534	Coated Panel-Dry Film	



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Corrosion, Cyclical	GMW14872	Coated Panel-Dry Film	
Corrosion, Prohesion	ASTM G 85 Annex A5	Coated Panel-Dry Film	
Corrosion, Salt Fog	ASTM B117; ISO 9227 - NSS Test Only	Coated Panel-Dry Film	
Density (wt/gallon cup)	ASTM D1475	Liquid Paint	
Determination of Conversion Coat Uptake	ASTM B 767	Coated Panel-Dry Film	
Dry Film Thickness	ASTM D 7901	Coated Panel-Dry Film	(0.2 to 60) mils
Dry Time	MIL-PRF-32239 (para 3.5.4)	Coated Panel	
Fluid Resistance, Jet Fuel	MIL-PRF-32239 (par 4.6.16c); MIL-PRF-85285 (par 4.6.8)	Coated Panel-Dry Film	
Fluid Resistance, Hydraulic Fluid	MIL-PRF-32239 (par 4.6.16b); MIL-PRF-85285 (par 4.6.8)	Coated Panel-Dry Film	
Fluid Resistance, Lubricating Oil	MIL-PRF-32239 (par 4.6.16a); MIL-PRF-85285 (par 4.6.8)	Coated Panel-Dry Film	
Fluid Resistance, Water	MIL-PRF-32239 (par 4.6.16d); ISO 2812-2	Coated Panel-Dry Film	
Fluid Resistance, Skydrol	MIL-PRF-32239 (par 4.6.16e); ISO 2812-1	Coated Panel-Dry Film	
Viscosity	ASTM D 1200	Liquid Sample	
Impact Elongation	ASTM D 6905; ISO 6272-1; MIL-PRF-85285 (par 4.6.7.1); MIL-PRF-32239 (par 4.6.15.1); MIL-PRF-23377 (par 4.5.5)	Coated Panel-Dry Film	
Gloss	ASTM D 523; ISO 2813	Coated Panel-Dry Film	
Hardness, Pencil	ASTM D 3363	Coated Panel-Dry Film	6B-6H
Heat Resistance	MIL-PRF-85285 (par 4.6.10); MIL-PRF-32239 (par 4.6.21)	Coated Panel-Dry Film	



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Humidity Resistance	MIL-PRF-85285 (par 3.8.3); MIL-PRF-32239 (par 4.6.18)	Coated Panel-Dry Film	
Flexibility, Cylindrical/Conical Mandrel Bend	MIL-PRF-85285 (par 4.6.7.2); MIL-PRF-32239 (par 4.6.15.2); ASTM D 522; ISO 1519; ISO 6860	Coated Panel-Dry Film	
Opacity	ASTM D 2805	Leneta Draw Down Cards – Dry Film	
Pinhole Detection	ASTM G 62	Coated Panel-Dry Film	
Rain Erosion Resistance	AMS-C-83231 CLG-LP-051	Coated Airfoil or Test Panel – Dry Film	
Solvent Resistance	MIL-PRF-85285 (par 4.6.11); MIL-PRF-32239 (par 4.6.22)	Coated Panel-Dry Film	
Strippability	MIL-PRF-85285 (par 4.6.14); MIL-PRF-32239 (par 4.6.24)	Coated Panel-Dry Film	
Taber Abrasion	ASTM D4060	Coated Panel-Dry Film	
AMS 3095A - Artificial Weathering (UVB Condensation Exposure)	AMS 3095A; ISO 11507	Coated Panel-Dry Film	
AMS 3095A - Adhesion (Crosshatch)	AMS 3095A; ISO 2409; ISO 2808; ISO 3270	Coated Panel-Dry Film	0-5
AMS 3095A- Flexibility - Conical Mandrel	AMS 3095A; ISO 6860	Coated Panel-Dry Film	
AMS 3095A- Flexibility - Cylindrical Mandrel	AMS 3095A; ISO 1519	Coated Panel-Dry Film	
AMS 3095A - Reverse Impact	AMS 3095A; ISO 6272-1	Coated Panel-Dry Film	
AMS 3095A- Quality (Examination of Received Coatings)	AMS 3095A; ISO 1513; ISO 4618	Liquid Sample	
AMS 3095A - Application and Finish	AMS 3095A; ISO 3270	Coated Panel	
AMS 3095A - Corrosion Resistance - Salt Spray	AMS 3095A; ISO 9227; ISO 8407	Coated Panel-Dry Film	



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AMS 3095A - Filiform Rating	AMS 3095A; ISO 4623-2; ISO 4628-10	Coated Panel-Dry Film	
AMS 3095A - Penetration	AMS 3095A; ISO 1518-1	Coated Panel-Dry Film	
AMS 3095A - Skydrol Resistance	AMS 3095A; ISO 2812-1; ISO 4628-1; ISO 4628-2	Coated Panel-Dry Film	
AMS 3095A - Water Immersion	AMS 3095A; ISO 4628-1; ISO 4628-2; ISO 2812-1; ISO 3696	Coated Panel-Dry Film	
AMS 3095A - Strippability	AMS 3095A; SAE MA 4872	Coated Panel-Dry Film	
AMS 3095A - Heat Stability	AMS 3095A	Coated Panel-Dry Film	
AMS 3095A - Washability (Cleaning Efficiency)	AMS 3095A; MIL-PRF-85285 (para 3.9.3); MIL-PRF-85570 (para 4.5.4)	Coated Panel-Dry Film	Up to 100%
AMS 3095A - Drying Time Measurements	AMS 3095A; ISO 3270; ISO 4618; ISO 9117-1; ISO 9117-3; ISO 3678	Coated Panel	

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L1189-1.
2. In addition to the requirements of ISO/IEC 17025:2017, the Coatings Laboratory Manual also meets the requirements of the SAE AS5505 (Requirements for Accreditation of Testing Laboratories for Organic Coatings) quality system.
3. References to all MIL-PRF documents are the latest version of that specific document.

R. Douglas Leonard Jr., VP, PILR, SBU