



DETROIT TESTING LABORATORY, INC.



Environmental Simulation & Accelerated Weathering

Performance of a material or component used in the manufacturing of an automobile, military vehicle, aircraft or consumer product under extreme conditions is critical to the long-term reliability of that product. DTL's engineers utilize over 100 extreme condition environmental chambers which accelerate the effects of weathering and environmental conditions on small components to complete large-scale systems.

Our chambers range in size from single component (4 cubic feet) to large product/vehicle chambers (over 5,000 cubic feet). These chambers offer not only most extreme conditions (from -100°C to +1100°C), but also fast temperature ramp capability, corrosive environment, explosion-proof conditions, hydrocarbon sensing and fire suppression, and the ability to monitor the product remotely throughout the test program.

Simulated Environments

- Temperature/Humidity Cycling
- Thermal Shock
- Fogging
- Sunlamp Exposure
- Ozone
- Weather-Ometer (Xenon & Carbon Arc)
- Humidity (Condensing/Non-Condensing)
- Oven Aging
- Fade-Ometer
- QUV Exposure
- Mildew

Corrosion Testing

- Accelerated Corrosion
- CASS
- Cyclic Corrosion
- Salt Spray
- Scab Corrosion
- Corrodoke
- Filiform Corrosion
- Arizona Proving Grounds Cycle (APG)

Surface Property Testing

- Abrasion
- Cleanability
- Wyzenbeek Wear
- Coating Thickness
- Color Readings
- Crocking
- Solvent/Detergent Resistance
- Spot Test Acid/Water & Soap
- Gravelometer
- Oil/Gas Immersion
- Paint Adhesion
- Perspiration
- RCA Wear
- Scuff/Mar/Scratch
- Specular Gloss
- Flexibility
- Thumbnail Hardness
- Water Immersion
- Hydrogen Sulfide Exposure
- Cure Test
- Dime Scrape

For further information contact:

Mary Byl
Account Manager
Direct Dial: (586) 757-3283
Cell Phone: (313) 407-7075
E-mail: mbyl@dtl-inc.com

DETROIT TESTING LABORATORY, INC.

27485 George Merrelli Drive
Warren, MI 48092
(586) 754-9000
www.dtl-inc.com