



Environmental Qualification Testing

We Take A Closer Look

- EMI/EMC Testing
- MIL-STD-461
- Corrosion Testing
- Accelerated Weathering
- Vibration Testing
- Automotive Testing
- Military Testing

Environmental Testing Services

By accelerating and intensifying environmental conditions, it is possible to predict how products will perform during their lifetime. ATS has the capability to conduct a wide variety of simulated weathering and artificial aging tests. Because product development cannot wait for years of actual outdoor exposure, accelerated laboratory weathering can provide results in a fraction of that time. With a clear understanding of the mechanisms and variables of natural weathering, it is possible to obtain reliable comparative results in a matter of weeks rather than years.

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Environmental Testing

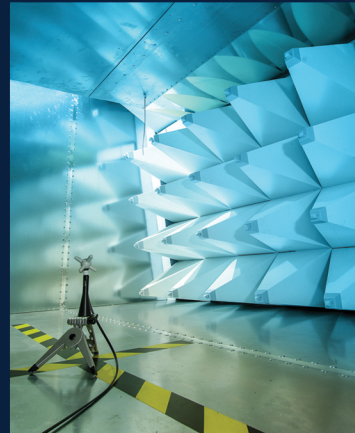
Capabilities include:

- Accelerated Weathering and Materials Testing
- Coatings and Polymers
- Helmet Testing
- Plating Evaluations
- Product Testing
- Corrosion Investigations
- SEM/EDS Analysis
- Coatings Failure Analysis
- Salt Fog
- Acoustic Measurement
- Cyclic Corrosion Testing
- Temperature/Humidity Cycling
- Weatherometer Exposure (Xenon-arc, Fluorescent UV)
- Vibration/Shock Testing (Electrodynamic Shakers)
- Combined Temperature/Vibration Testing
- On-site/Field Data Acquisition and Analysis
- Experimental Modal Analysis
- Taber and Scrubb Abrasion Testing
- Color and Gloss Testing
- Various Impact Testing

Accelerated Weathering

Capabilities include:

- Temperature and humidity cycling
- Thermal shock
- Xenon arc weathering
- Fluorescent U.V. weathering



Corrosion Testing

Corrosion of American infrastructure accounts for the loss of many millions of dollars annually. Products ranging from hand tools to bridges must combat this phenomenon through proper design and coating protection. Laboratory corrosion testing enables clients to evaluate new designs and coatings in a controlled environment prior to release into the real world. Common tests include:

- Salt Fog
- Cyclic Corrosion
- Condensing Humidity
- C.A.S.S.

Automotive Testing

ATS performs a wide variety of physical and environmental tests on automotive interior assemblies, exterior trim, as well as suspension, brake and engine components. Whether it is pre-production or product performance testing, we have the experience to assist you with development programs and component acceptance. Tests include:

- Temperature & Humidity Cycling
- Vibration
- Salt Spray
- Cyclic Corrosion
- Ultraviolet Weathering
- Chemical Resistance

EMI & EMC Testing

ATS conducts EMI & EMC testing to analyze the interference and compatibility of a subject to ensure industry compliance. EMI, or electromagnetic interference, tests for the emission of any signal or noise from a subject that causes interference with other vehicles, equipment, or machinery. EMC, or electromagnetic compatibility, tests a subject's ability to operate without creating electromagnetic interference for other devices in the subject's environment. ATS performs the following testing standards:

- RTCA-DO-160
- MIL-STD-461
- MIL-STD-704

Military Testing

ATS takes pride in its commitment to military testing which has become a viable segment within our scope of capabilities. We offer a wide range of testing within one facility and strive to maintain our "one-stop-shop" reputation. Whether it is electrical testing of flight instrumentation or thermal cycling of advanced combat helmets, ATS has the ability to manage your entire test program. Capabilities include:

- Temperature Shock
- Temperature & Humidity Cycling
- Impact Testing
- Mechanical Testing
- Shock/Vibration Testing
- Ultraviolet Weathering
- Salt Spray
- Chemical Resistance and Immersion