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.

Common tests include:
- Temperature and Humidity Cycling
- Vibrations
- Mechanical Shocks
- Cyclic Corrosion
- Ultraviolet Weathering
- Chemical Resistance

Typical specifications include:
- Ford Engineering Standards
- GM Engineering Standards
- BMW Group Standards
- Toyota Engineering Standards
- Honda (HES)
- Nissan (NES)
- Hyundai
- Kia
- Volvo
Specialty Testing
Whether it is life cycle testing of playground slides or performance testing of automotive steering pumps, ATS has the experience and capabilities to satisfy your needs.

Capabilities:
• Strain Gage
• Pressure Testing
• Helium Leak Testing
• Weld Testing
• In House Machining, Specialty Fabrication
• Impact Testing
• Stress Rupture
• Hydrogen Embrittlement Testing
• Fastener Testing
• Hardness Testing
• Customized Product Testing
• Tensile, Compression, Torsion, Shear and Bend Testing

Environmental Testing
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.

Capabilities:
• Accelerated Weathering and Materials Testing
• Coatings and Polymers
• Helmet Testing (D.O.T. and C.P.S.C)
• Platings
• Corrosion Investigation
• Coating Failure Analysis
• Salt Fog
• Cyclic Corrosion Testing
• Temperature/Humidity Cycling
• Weatherometer Exposure
• Vibration/Shock Testing (Electrodynamic Shakers)
• Combined Temperature/Vibration Testing
• Experimental Modal Analysis
• Color and Gloss Testing
• Various Impact Testing

Metallurgy and Failure Analysis
Our chemists, metallurgists and professional engineers work as an experienced problem-solving team to determine the cause of your failures.

Capabilities:
• Failure Analysis
• Litigation Support/Expert Testimony
• Hardness and Microhardness Testing
• Plating Thickness and Type
• Microstructure and Grain Size
• Image Analysis
• Scanning Electron Microscopy
• Energy Dispersive X-ray Spectroscopy
• Legal Inspection Hosting
• Reverse Engineering

We Take A Closer Look!
Accreditations / Certifications

ISO 9001