

Automotive Capabilities

Testing and Advisory Services



Valued Quality. Delivered.



Intertek is more than a testing laboratory - we are a test partner, guiding our clients through all stages of the development process to help identify all regulatory certifications needed for virtually any environment. Our decades of expertise within the Automotive industry allow us to provide a faster, more cost-effective product testing and certification solution.

Intertek automotive testing services benefit the global automotive and transport industries, helping clients with supply chain management, design, materials research, regulatory compliance, performance, quality control, failure analysis and more.

We improve the performance, quality, efficiency and safety of engines, electronics, powertrains, plastics and other major components and products used in the automotive industry. Intertek automotive testing locations are strategically placed around the world to provide support to automotive industry clients.

Quick Intertek Facts

- As experts in the industries of our customers, we provide a complete quality and safety solution with the services that they need.
- Intertek Group plc is listed on the London Stock Exchange – FTSE 100
- We operate in more than 100 countries with over 30,000 employees



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Materials Testing

- Chemistry – Metals, Non-metals
- ELV (End of Life Vehicle Testing)
- Failure Analysis
- Finite Element Analysis (FEA)
- Flammability
- Metallurgical
- Plastics/Textiles Rubbers
- SEM/EDS Chemical Elemental Composition and Mapping
- Simulated Environmental

Accelerated Stress Testing

- FMVT® (Failure Mode Verification Testing)
- HALT/HASS
- Key Life Testing
- MEOST (Multi Environment Overstress Testing)

Battery Testing

- Advisory and Consulting Services
- Battery Abuse Testing (Cell, Pack, Module)
- CAN bus Data Acquisition Systems
- Durability Charge/Discharge at 2000 Amps
- Endurance Cycle Set-up
- Environmental Exposure
- AV-900 Full Hybrid Vehicle Pack Cycling (Up to 900v, up to 1000A)
- Mechanical Shock to 60ms/1000 lb
- 200 Channels Primary Battery Discharge Points
- 300 Rechargeable Charge/Discharge Stations up to 80v
- Terminal Cycle
- Thermal Shock
- UN DOT 38.3 T1-T8 Testing
- Vibration

Product Endurance & Performance Testing

- Buzz, Squeak & Rattle (BSR)
- Custom Designed Testing Programs
- Design, Durability, Performance
- Design, Set-up
- Fatigue
- Multi-Axis Testing (6DOF) (to 10,000 Hz) Static and Electro-Mechanical Cycling

- Shock ½ Sine, Sawtooth, Triangular (to 40G's, 11mS; to 100G's, 6mS)
- Pressure Testing
- Programmable Chamber Exposures
- Safety Glass, Safety Glazing Testing
- Thermal Aging, Thermal Cycling
- Thermal Shock
- Vibration Testing (Sine, Random, Shock)

Automotive EMC

For Automotive testing, Intertek maintains a 5m EMC Chamber (capabilities from 10KHz to 18GHz). We are AEMCLAP Accredited, and approved by Ford and GM.

Vehicle Based Engine Component and Durability Testing

Testing locations throughout the United States are available for hot weather, cold weather, humidity, altitude, or corrosive environment tests needs.

Evaporative Emission Testing

Sealed Housing for Evaporative Determination (SHED) Testing is used extensively to evaluate the evaporative emission tendencies of vehicle components in a variety of SHED sizes.

Additional Automotive Services

- Airbag Testing
- Antifreeze Testing – ASTM 2570
- Dynamometer Based Engine Component and Durability Testing
- Electrical and Electronic Testing
- Field Evaluation Services
- Fuel and Lubricant Qualification
- Lighting/Photometric Testing
- Parametric Testing
- Quality Management Systems Certification
- Refrigeration Oil Performance Tests
- Road Load Data Acquisition & Data Analysis
- Road Simulation Testing
- USCAR Testing
- Vehicle Fuel System Testing
- VOC Testing

Intertek

45000 Helm Street,
Suite 150
Plymouth, MI 48170

T: 1-800-WORLDCON

www.intertek.com

For more information please visit www.intertek.com/automotive, contact us at icenter@intertek.com, or call us at 1-800-WORLDCON (967-5352).

To find an office or laboratory in a particular country, please visit www.intertek.com/contact.