Analytical Services for the Automotive & Transportation Industries

Cleanliness Testing

Many transportation components are parts of sealed systems. Manufacturing processes can leave oils, particulates and other contaminants behind that can compromise your product’s performance, reliability and reputation.

Verifying cleanliness after manufacturing processes can prevent failures in the field. Failure of these parts can cause catastrophic accidents, endangering lives.

Industry standards occasionally require unusual solvents to flush parts. IMR can work with everything from reagent grade, to common cleaners or your proprietary blends.

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Polymer Testing

Material ID/verification
Contaminant Analysis to Trace Levels
Paint Analysis
Oils Testing
Chemical Exposure of Plastics
Adhesion
Chemical Resistance of Coatings
Gardener Impact
Ash Content
Composites Analysis
Resins and Adhesives
Heat Aging
Fluid Aging
Failure Analysis

Our facilities in NY & KY are A2LA (ISO 17025) accredited and can test to the following:

- AA/AA-P
- ASTM
- DBL
- DIN
- Ford
- ISO
- GM
- GS
- PV
- TL
- SAE
- VDA
- VW

...and more. Call us to discuss your project today.

Mechanical Testing

Tensile, Yield, Elongation
Charpy
Izod
Flexural
Weld Qualification
Fatigue
Hardness
Compression

Salt Spray
Chip Resistance (Gravelometer)
Cyclic Exposure
UV Exposure
Adhesion
Gloss

Accelerated Weathering & Corrosion

Salt Spray
Chip Resistance (Gravelometer)
Cyclic Exposure
UV Exposure
Adhesion
Gloss

Metallurgical Evaluations

Failure Analysis
Microhardness
Microstructure
Plating
Thickness
Resistance Weld Inspections
Fusion Weld Inspections
Reverse Engineering
Contamination/Fod Identification
Case Depth
Defect Analysis
PPAP
Hydrogen Embrittlement

Chemical Analysis

Alloy Chemistry
Trace Element Analysis
Raw Material Verification
Cleanliness Testing
Coating Weight
Hexavalent Chromium

Now Featuring High Temperature Fatigue Testing - up to 1800°F