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.

Not just data, knowledge

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Mechanical Testing

- Tensile, Yield, Elongation
- Charpy
- Izod
- Flexural
- Weld Qualification
- Fatigue (RBF, HCF, LCF)
- Hardness
- Compression

Chemical Analysis

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

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

Accelerated Weathering & Corrosion

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

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

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

...and more. Call us to today.

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
- Heat Aging
- Fluid Aging
- Failure Analysis