Mechanical Testing

- Adhesion (Peel) Testing
- Bend Testing (3 Point, 4 Point)
- Bond Strength Testing
- Charpy Impact Testing (-320°F to 450°F)
- Coefficient of Thermal Expansion by TMA
- Composite Testing (FRC, CMC)
- Compressive Properties of Nonmetallics
- Creep & Stress Rupture
- Fatigue Testing (Axial, Low Cycle, High Cycle, Rotating Beam, Coating Shear)
- High Temperature Fatigue Testing up to 1800°F
- Filled Hole Tension/Compression
- Flexural Properties (Modulus, Strength, Stress-Strain Response)
- Fracture Mechanics
- Hardness (Rockwell, Brinell)
- Heat Aging
- Heat Deflection by TMA
- Hydrogen Embrittlement (Static Load)
- In-Plane Shear Response
- Indentation Toughness
- Interlaminar Shear
- Impact Testing (Charpy, IZOD)
- Lap Shear Testing
- Open Hole Tension/Compression
- Peel Properties (Climbing Drum, Floating Roller)
- Residual Strength of Composites After Impact
- Resin Penetration
- Sealant & Adhesive Testing
- Shear Properties
- Slow Strain Rate
- Static Pin Bearing Strength
- Taber Abrasion/Wear Resistance
- Tensile Testing - Metals (to 2000°F)
- Tensile Testing - Nonmetallics (-240°F to 660°F)
  - Flatwise, Cruciform, Hoop, Standard
- Torsional/Axial Fatigue (200 lb)
- Welder/Weld Procedure Qualification

Adhesive Services

Metals, Polymers, Composites, Coatings, Solutions, Finished Products & more

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**Why IMR?**

You know your products better than anyone. The good name and reputation of your company goes out with every piece you ship. Your needs, your priorities and your deadlines drive everything we do at IMR.

We are your one-stop laboratory for high quality materials testing services on metals, polymers and composites. Whether you are verifying raw materials, checking finished parts from your suppliers or require a failure analysis, we have the experience, tools and training to help you get the answers you need.

We carry all of the requisite accreditations and approvals, including ISO 17025, Nadcap, A2LA, SAC, GE S-400, Pratt & Whitney MCL, and many other major manufacturers. We serve clients in a variety of industries including medical, power generation, aerospace, automotive and more.

Contact us today for more information on how we can help you with your materials testing and failure analysis needs.

**Corrosion Testing**

Corrosion Cracking Testing of Metals (SCC) and Plastics (ESC)
Corrosion Failure Analysis
Determining Corrosion Rates of Metals and Corrosiveness of Fluids Using Electrochemical and Immersion Test Techniques
Dezincification Testing of Brasses
Electrochemical Corrosion Simulation
Evaluation of Duplex Stainless Steels
Fornicary (Ant’s Nest) Corrosion of Copper tubing
General and Pitting Corrosion Testing
Heat & Fluid Aging
Passivation Testing of Medical Components
Residual and Assembly Stress Testing of Copper Alloys
Sensitization Testing of Austenitic and Ferritic Stainless Steels