Coatings Evaluations at IMR Singapore

IMR Test Labs - Singapore is a GE S-400 approved coatings laboratory. We have GE CCL certified coatings technicians who can provide approved coatings evaluations and reports that satisfy GE requirements.

IMR Singapore carries GE S-400 Code AJ approval on our cert T9325, which includes the following coatings: F50TF13 CL-A/B50TF72 CL-A, F50TF15 CLA, F50TF18 CLB, F50TF22 CLA, F50TF25 CLA, F50TF25 CLB, F50TF50 CLB, F50TF69 CLB, F50TF71 CLA & CLC, F50TF75 CLB, F50TF102 CLA

Contact us today at sales@imrsingapore.com

Not just data, **knowledge**

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**IMR Test Labs**
A Curtiss-Wright Business

**Analytical Services for the Aerospace Industry**

**Specialty Services**

- Aggressive Machining Evaluations
- Analysis to support Additive Manufacturing
- Coatings Evaluations
- Metallography/Materialography
- Preparation of speciality materials including: Inconel 625, Haynes 25, Haynes 188, L605, stellites, ceramics, fiber-reinforced composites and more.
- 2 and 3 part Chemical Etching
- AC Electrolytic Etching
- Non-routine DC Electrolytic Etching
- Vibratory Polishing
- Thermal Spray Evaluation Training
### Metallurgical & Failure Analysis
- Aggressive Machining Evaluations
- Alpha Case
- Case Depth
- Decarburization
- Effective Case Depth
- Grain Size
- Inclusion Content
- Intergranular Attack
- Macro-etching/Micro-etching Metallography
- Microhardness (Knoop, Vickers)
- Microstructure
- Particle Analysis
- Plating & Coating Analysis
- Porosity
- Root Cause Analysis
- Specialty Material Preparation
- Thermal Spray Coating Analysis
- Weld, Braze & Joining Evaluations

### Polymers, Composites & Contaminants
- Additive Analysis to Trace Level
- Bond Strength
- Chemical Exposure Testing
- Chemical Resistance
- Coefficient of Friction
- Compression Set
- Compressive Properties
- Contaminant Identification
- Density & Specific Gravity
- DSC Analysis: Melting Point, Glass Transition, % Crystallinity
- Dynamic Mechanical Analyzer (DMA) Testing
- Extractables
- Failure Analysis
- Fatigue Testing
- Flammability
- Flexural Properties
- Fluid Exposure
- FTIR Analysis
- GC/MS: Additives
- Hardness: Rockwell, Durometer, Barcol
- Heat Aging
- Impact Strength
- Lap Shear Testing
- Material Identification
- Melt Flow Rate/Index
- Oil Content
- SEFA Testing
- SEM/EDS Analysis: Fillers
- Tensile Testing: Flatwise, Cruciform, Hoop, Standard, -240F to 660F
- TGA: Polymer, Glass and Ash Content
- TMA: Glass Transition, Coefficient of Thermal Expansion, Heat Deflection
- Viscosity
- XRD: Phase Identification, Material Confirmation

### Chemical Analysis
- Alloy Identification/Verification
- Cleanliness
- Contaminant Analysis
- ICP-AES Analysis
- ICP-MS Analysis
- OES Analysis
- Particle Size Analysis
- PMI (Positive Material Identification)
- SEM/EDS
- XRF Analysis
- XRD Analysis

### Mechanical Testing
- Coating Adhesion/Bond Strength
- Creep/Stress Rupture
- Erosion Testing of Coatings
- Fatigue Testing
- Flexural
- Fracture Mechanics
- Hardness (Brinell, Rockwell)
- High Cycle Fatigue
- Hydrogen Embrittlement
- Impact Testing
- Low Cycle Fatigue
- Rotating Beam Fatigue
- Tensile, Yield, Elongation
- Weld Qualification