

## Coatings Evaluations

From the beginning of the evaluation process with powder analysis (sieve, microtrac, SEM), to the analysis of the final deposit (metallography and tensile/adhesion), IMR provides competitive, high-quality coatings testing services.

We are Nadcap and A2LA accredited. IMR also has received certifications from major OEMs such as Boeing, Honeywell, Lockheed Martin, MTU, and others.



## GE Central Coatings Laboratory (CCL)

Since 2017, IMR Test Labs - Singapore has been a GE S-459 approved Central Coatings Laboratory. Our experienced GE CCL certified coatings technicians perform approved round-robin evaluations that meet GE Aerospace requirements.

## CCL Training Classes held in Singapore



IMR Singapore is approved by GE Aerospace to conduct the GE CCL Training Program. Suppliers' laboratory personnel undergo this training course to be certified prior to testing and evaluating Thermal Spray Coatings to GE Aerospace specifications.



### IMR Test Labs

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### Nadcap Accreditation: Ithaca: MTL, NMMT

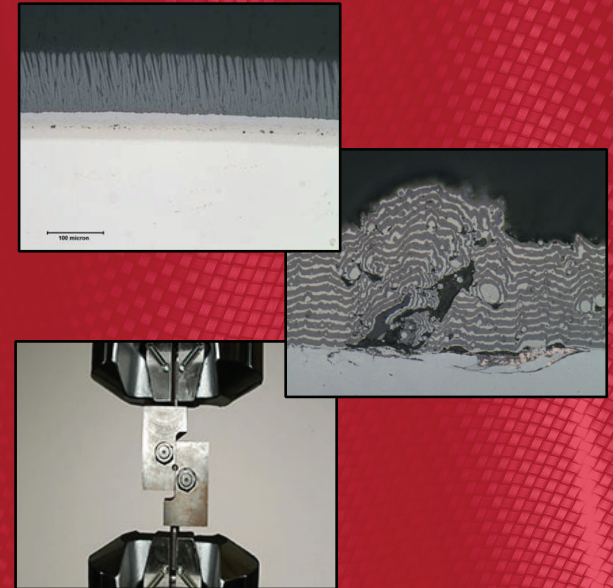
MTL: Louisville, Portland, Singapore, Suzhou

A2LA Accreditation: Ithaca (1140.01 / 1140.02),  
Louisville (1140.03/1140.04), Portland (1140.07),  
Singapore (1140.10), Suzhou (1140.09)

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IMR TEST LABS

## Thermal Spray Coating Testing and Evaluations

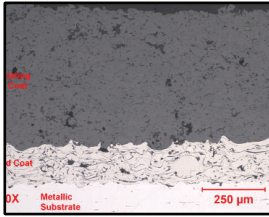


[www.imrtest.com](http://www.imrtest.com)



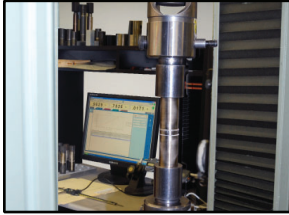
## Metallography

Our team employs many advanced mounting, polishing and examination techniques to thoroughly evaluate the most advanced coatings.



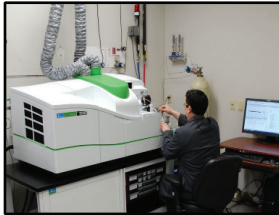
## Bond Strength/Coating Adhesion

IMR provides coating adhesion testing of samples, both as coupons or on part geometries.



## Chemical Analysis

We provide chemical analysis, ICP-MS, particle size (Microtrac) and morphology (SEM & Optical) to fully characterize your starting powder.



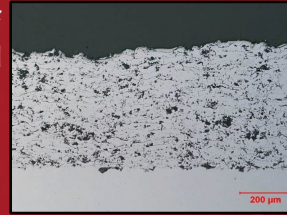
## Salt Spray and Corrosion Testing

IMR provides a wide range of environmental simulation methods including B117 salt spray, cyclic corrosion, temperature & humidity cycling and specialized environments.



## Failure Analysis

Our experienced team of metallurgists and material scientists possesses the specialized knowledge to determine why coatings fail.

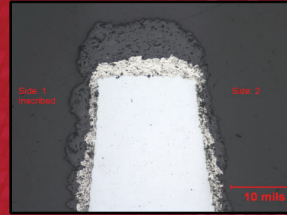


## Hydrogen Embrittlement

An important technique to evaluate the effects of the coating process on material strength.

## Wear Testing

IMR offers a number of different wear tests including Taber, cyclic, falling sand and erosion testing.



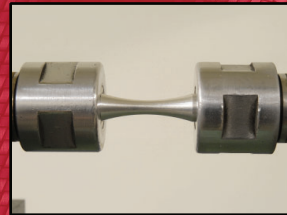
## Coating Shear Fatigue Testing

We provide shear strength and shear fatigue testing of samples from test bars to coated end product components.



## Rotating Beam Fatigue

A valuable testing method for evaluating coatings under reverse bending conditions.

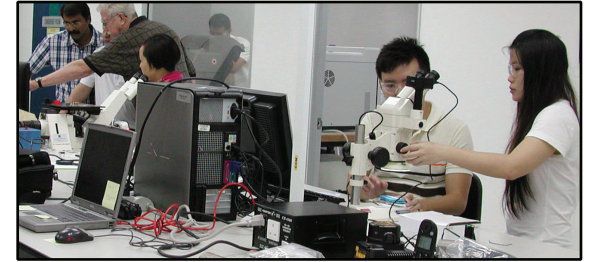


## Thermal Spray Evaluation Training

IMR has trained hundreds of engineers and lab personnel for major manufacturers to evaluate thermal spray coatings, on-site at our Testing Center in our Ithaca facility.

IMR Test Labs has developed a training course to meet the training needs of the entire industry. Certificate provided upon successful completion of the course materials.

We've expanded the course with updated material, extended hands-on lab time and a strong focus on the latest advanced materials and coatings technology available.



## Aerospace Metallography and Coating Evaluation Training Program

Topics Covered:

- Principles of Metallography
- Sectioning and Mounting
- Grinding and Polishing
- Hardness & Tensile Bond Strength Testing
- Diffusion Coatings Evaluation
- lots of hands-on lab work

REGISTRATION REQUIRED

For more information, visit our website:

[www.imrtest.com](http://www.imrtest.com)