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## The M&P Lab

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### CURRENT METALLURGICAL CAPABILITIES OFFERED by THE M&P LAB

#### Materials

- ⊕ Composites
- ⊕ Ceramics
- ⊕ Metals
- ⊕ Plastics
- ⊕ Coatings

#### Purposes

- ⊕ Failure analysis
- ⊕ Performance evaluation
- ⊕ Process control
- ⊕ Quality assurance
- ⊕ Research and development

Mounting	Thermoset .....	- Mount sizes: 3/4" to 2" in diameter
	Castable Epoxy .....	- Mount sizes: 1" to 8" in diameter
Replication	.....	- Lab and Field Services
Digital Photomacrography	.....	- Color and B&W, up to 50X
Digital Photomicrography	.....	- Color and B&W, up to 1000X
Crack Identification	Liquid Penetrant.....	- Lab and Field Services
Evaluations	Grain Size .....	- ASTM E112
	Microhardness .....	- ASTM E384
	Corrosion susceptibility..	- ASTM A262
	Case Depth .....	- ASTM, SAE, various others
	Phase Segregation .....	- Macroscopic and Microscopic
	Inclusion Content .....	- Microscopic and Digital Image Analysis
	Porosity Measurements.	- Microscopic and Digital Image Analysis
	Creep Voiding .....	- Identification and Documentation
	Oxidation and Corrosion.	- Identification and Documentation
	Phase Identification .....	- Microscopic, SEM/EDS, Microprobe
Failure Analysis	Coatings and Films .....	- Integrity, Porosity, Adhesion
	Welds, Brazes and Solders	- Integrity, Porosity, Dimensional
	.....	- Lab, Field and Consulting Services
	.....	- SEM/EDS, Microprobe