



# Georgia Industrial Minerals, Inc.

## OPTIfine Muscovite Mica

### Markets

OPTIfine is a water ground that has optimum delamination and high purity. Our patented process produces a mica product that gives optimum performance in a variety of applications. In addition to excellent color, OPTIfine creates a functional pigment that is very desirable where low bulk density, fineness, high aspect ratio, and excellent coverage is required.

### Applications

The major applications for OPTIfine are:

Foundry coatings	Mold releases
Wire & cable	Engineering plastics
Asphalt products	Gaskets
Asbestos replacement	Sealants, caulks
High temp coatings	Industrial primers
Exterior coatings	Marine coatings

### Performance Characteristics

The performance characteristics that make OPTIfine an acceptable cost effective additive for these markets are:

- Excellent color
- Ease of dispersion
- Increased coverage
- Chemical inertness
- High temperature stability
- Superior barrier properties
- Superior dielectric properties
- Superior reinforcement properties

Plant Location: Deepstep Community  
 1132 Veal Road  
 Sandersville, Ga. 31082  
 Phone: (478) 553-0048  
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### Physical Properties

	<u>Specifications</u>	<u>Typical</u>
Mean Particle Size, microns	8 - 12	10
Sieve Analysis, % retained		
+100 mesh	trace	0.0
+200 mesh	0.5 max.	trace
+325 mesh	0.5 max.	0.2
Bulk Density (Colgate method)	6 -10	7.5
Moisture Loss, 100C °, %	0.5 max.	0.3
Color, L value	90 min.	

### Chemical Properties

Mineral	Muscovite mica
Chemical Composition	Potassium aluminum silicate
Specific gravity	2.82
CAS#	12001-26-2
ph	6.0 – 7.5

### Regulatory

GIM mica meets the FDA requirements of Title 21 CFR § 175.105.5 Adhesives; §175.300 Resinous & Polymeric coatings; §177.1520(B) Olefin polymers; §177.2800 Rubber articles intended for repeated use; §178.3297 Colorants for polymers. Meets CTFA 73.2498 for use in cosmetics. These mica products are listed on the US TSCA list and Canadian DSL. See MSDS for safety and additional regulatory information.

### Contacts:

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