



Georgia Industrial Minerals, Inc.

OPTIbrite Muscovite Mica

Markets

OPTIbrite is a water ground muscovite mica 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, OPTIbrite creates a functional pigment that is very desirable where low bulk density, fineness, high aspect ratio, and excellent coverage are required.

Applications

The major applications for OPTIbrite 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 OPTIbrite an acceptable cost effective additive for these markets are:

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

Plant Location : Deepstep Community
 1132 Veal Road
 Sandersville, Ga. 31082
 Phone: (478) 553-0048
 Fax: (478) 553-0050

Physical Properties

Mean Particle Size, microns	14 - 19	16
Sieve Analysis, % retained		
+100 mesh	trace	0.0
+200 mesh	0.5 max	Trace
+325 mesh	1.0 max.	0.8
Bulk Density (Colgate method)	6 - 10	8.0
Moisture Loss, 100C °, %	0.5 max.	0.3
Color, L value	90 min.	

Specifications

Typical

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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