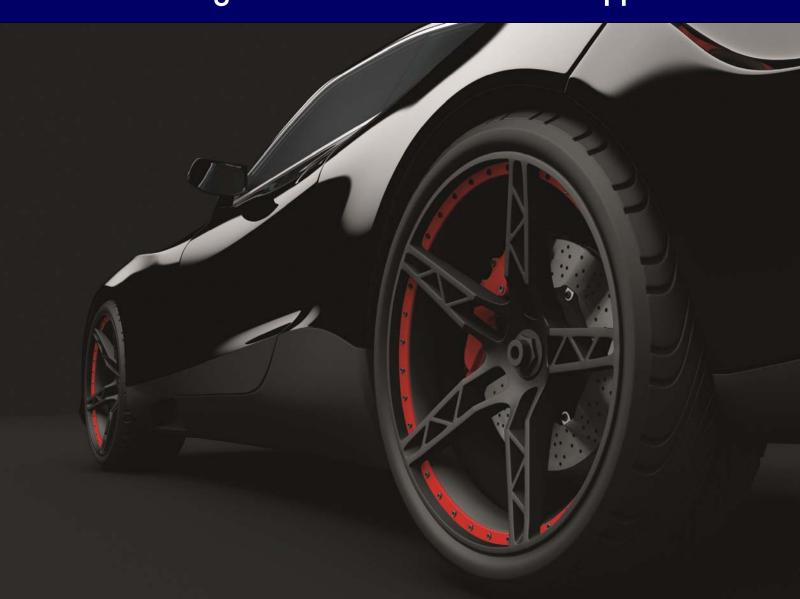


Suzorite™ Mica

Controlling Performance in Friction Applications











Optimized Performance with Suzorite Mica!

Cool, Quiet and Wear Ability in Friction Applications

- Brake Linings & Calipers
- Brake Shoe and Disc pads
- Clutch Facings

Why use Suzorite™ Mica?

Typical Properties of Phlogopite Mica		
Specific Gravity (g/cm³)	2.7	
Loss on Ingnition (at 1000°C) (wt. %)	<1.0	
рН	9.0	
Mohs Hardness	3	
Thermal Conductivity Perpendicular: BTU/hr/ft² /°F/ft	0.2	
Thermal Conductivity Parallel: BTU/hr/ft² /°F/ft	3	

Suzorite[™] mica is phlogopite mica processed in Quebec Canada with high purity and quality standards. Phlogopite mica has inherent vibration and sound damping properties that produce a quieter braking system. Its low thermal conductivity reduces heat buildup to keep components cool. The availability of particle sizes aids in the tailoring of friction properties based on the surface area of the particles. High aspect ratio plates serve to prevent microscopic ruptures and minimizes warping during part manufacturing.

Fine Grades	Average Particle Size	Aspect Ratio	Bulk Density
	(μm) D50 Cilas Laser	(Jennings's Factor)	(lb/ft3)
Suzorite 325-S	35	80:1	14
Suzorite 200-S	55	60:1	14
Suzorite 150-S	150	90:1	14
Coarse Grades	Average Particle Size (μm) D50 Cilas Laser	Aspect Ratio (Jennings's Factor)	Bulk Density (lb/ft3)
Suzorite 60-S	250*	100:1+	16
Suzorite 60-Z	250*	100:1+	35
Suzorite 40-S	420*	100:1+	14
Suzorite 40-Z	420*	100:1+	45
Surface Treated Grades	Average Particle Size (μm) D50 Cilas Laser	Aspect Ratio (Jennings's Factor)	Bulk Density (lb/ft3)
Suzorite 350-PO	25	80:1	14
Suzorite 200-PO	55	60:1	14
Suzorite 150-PO	150	90:1	14
Suzorite 60-PO	250*	100:1+	16



Although the information in this document is believed to be accurate, it is presented without warranty of any kind and Imerys assumes no liability with respect to its use. No license to any intellectual property right is granted or implied. Statements or suggestions concerning possible use are made without representation or warranty that any such use is free of patent infringement, and are not to be construed as suggestions or inducements to infringe any patent.

IMERYS

^{*}Estimate based on mesh size