

Mica Advantages + Applications

	ADVANTAGES	APPLICATIONS
FILTER SUBSTITUTE		
Brake linings	Improves friction, reduces heat transfer, water recovery	<i>Brake industry, Automotive, Rail and Motorcycles</i>
Cement	Dimensional stability, heat and freeze/thaw resistance	<i>Cement sheets, pipes, and fire boards</i>
Foundry coatings	Improves permeability, green strength, and HDT; reduces shrinkage	<i>Refractory molds and cores</i>
Welding rods	Low hydrogen generation at high temperatures	<i>Industrial</i>
COATINGS		
Epoxy	Improves chemical resistance, modulus; reduces cost	<i>Tank linings</i>
Foundry coatings	Controls permeability, green strength, and HDT; reduces shrinkage	<i>Refractory molds and cores</i>
Joint cement	Improves barrier properties; reduces cracking and shrinking; easier to sand	<i>Construction</i>
Mold release	Adds lubricity; improves mold release, lower co-efficient of friction	<i>Slip & mold release compounds for Automotive, Plastic, and Industrial</i>
PAINTS		
Marine, epoxy, powder coatings	Reduces cracking, chalking, water penetration; lower vapor transmission; improves thixotropy, heat, UV and scrub resistance; good colorability	<i>Anticorrosive, Primer, Marine</i>
PLASTICS		
THERMOSETS		
Epoxy	Chemical & barrier resistance	<i>Refractory molds and cores</i>
Phenolic	Electric properties, dimensional stability, HDT, good colorability, strong with low abrasivity	<i>Appliances, Automotive</i>
Unsaturated Polyester	Improves modulus, reduces warp and shrink, good colorability	<i>Slip & mold release compounds for Automotive, Plastic, and Industrial</i>
THERMOPLASTIC		
Foamed PP, HDPE, PS	Good nucleation, increases low temperature impact, strong with low abrasivity	<i>Packaging, Automotive</i>
Mica acoustical plastics	Improves sound deadening properties, HDT, modulus, lower warpage and shrinkage	<i>Furniture, Sports Equipment, Automotive and Recreational Equipment</i>
Mica/glass/wood fiber/talc plastic combinations	Provides dimensional stability, lower cost, higher HDT and modulus, lower warpage and shrinkage, good colorability	<i>Furniture, Sports Equipment, Automotive and Recreational Products</i>
PP, HDPE, Nylon, PBT, & others	Improves HOT, flexure modulus dielectric properties, good colorability	<i>Automotive, Appliances, Recreational Products</i>
RIM Polyurethane	Higher modulus, lower thermal expansion, warpage	<i>Automotive- fenders, bumper fascias, etc.</i>

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