



KCM Series

Muscovite Miccas maintain a high aspect ratio of potassium aluminum silicate which exhibits superior brightness and purity.

Muscovite Miccas industrial applications include:
 Plastics – These miccas are excellent additives for plastics to improve flexural modulus, tensile strength, and dimensional stability and as an excellent extender for glass fiber.

Coatings – When used in coatings, mica platy structure imparts a barrier in the film to improve moisture resistance, chemical resistance, brush ability and promotes film adhesion.

Product	Particle Size Distribution (µm)*1							Ave. Part. Size (µm)	Ave. Aspect Ratio	Bulk Density (g/cc)
	+2000	+1180	+850	+425	+250	+150	+75			
KCM 10	10	40	65	90	95	98	99	1000	90	0.80
KCM 20			1	60	90	95	97	600	85	0.37
KCM 40IF				1	55	90	98	350	80	0.32
KCM 60					1	40	85	150	60	0.29

*1 Screen Analysis

Typical Properties	
True Density	2.85 g/cc
Melting Point	1,300°C
Moisture % (@100°C)	0.2
pH	9.0
LOI @ 1,000 °C	4.5
Mohs Hardness	2.5

Typical Chemical Analysis (WT.) %		
Silicon Dioxide	SiO ₂	46
Magnesium Oxide	MgO	0.9
Aluminum Oxide	Al ₂ O ₃	31.6
Iron Oxide	Fe ₂ O ₃	4.9
Potassium Oxide	K ₂ O	10.5

Chemical Abstract Registry (CAS) No.: 12001-26-2
 FDA: Arctic Minerals Mica products meet the FDA requirements of Title 21 CFR 175.105.5 Adhesive; 175.300 Resinous and Polymeric Coatings; 177.2600 Rubber articles intended for repeated use; 178.3297 Colorants for Polymers.

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