



A-Flex[®] Series

A-Flex[®] Muscovite Mica maintains a high aspect ratio of potassium aluminum silicate which exhibits superior brightness and purity.

A-Flex[®] Muscovite Mica 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 Description	A-Flex 10
Median Particle Size (d50)	Microns	300
% Retained	20 Mesh	4
% Between	20 and 40 Mesh	21
% Passing	60 Mesh	51
Bulk Density	(lbs./ft ³)	36
	(g/cc)	0.58
Aspect Ratio		40-60

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
Titanium Oxide	TiO ₂	0.2

Typical Properties	
True Density	2.85 g/cc
Melting Point	1,200°C
Moisture % (@100°C)	<0.4
pH	9.0
LOI @ 1,000 °C	<4.5
Mohs Hardness	2.5

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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