

## MICA 60

### DESCRIPTION

Mica or Muscovite is a platelet or lamellar structured industrial mineral which can be described as a potassium, aluminium silicate. Mica in the native form occurs in the presence of pegmatites and is mined in pod-like outcroppings. In a specialised delamination procedure, the native muscovite ore is reduced in size, ensuring that the individual flakes achieve the highest possible aspect ratio.

### USES

Mica is an excellent functional reinforcing filler in a wide range of industrial applications including: paints, gypsum and cementitious based plasters, polymer systems and board manufacture.

### TYPICAL CHEMICAL ANALYSIS

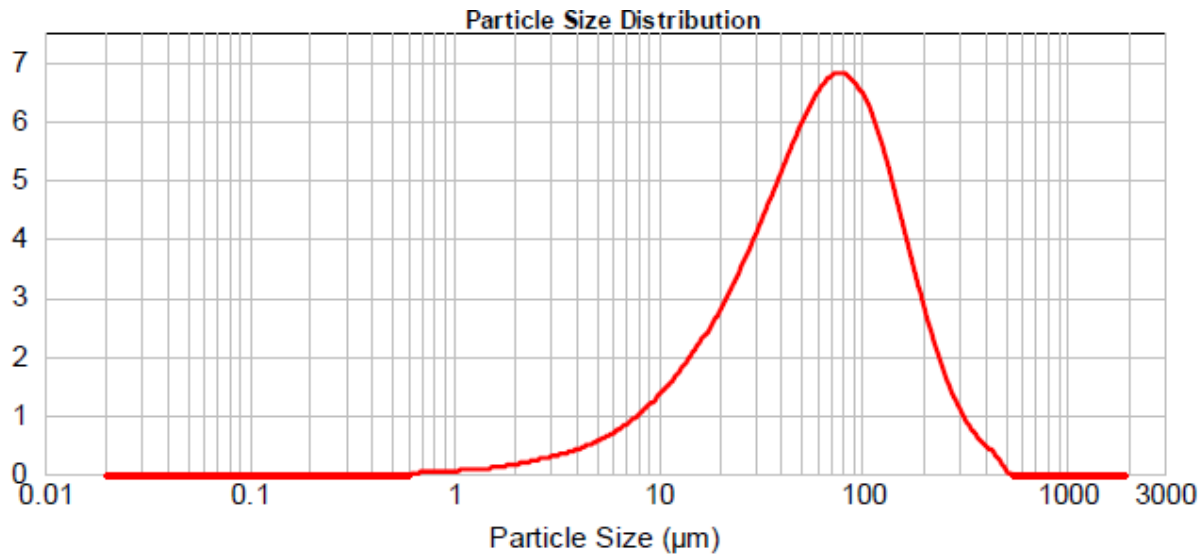
SiO <sub>2</sub>	45.7%
Al <sub>2</sub> O <sub>3</sub>	34.3%
K <sub>2</sub> O	10.3%
Fe <sub>2</sub> O <sub>3</sub>	4.2%
Na <sub>2</sub> O	0.7%
MgO	0.4%
MnO	0.03%
TiO <sub>2</sub>	0.03%
CaO	0.01%
Loss on ignition	4.07%

### TYPICAL PHYSICAL ANALYSIS

Particle Sizing	< 5% retained at 250 µm < 1% retained at 425 µm
Oil Absorption	60 - 70% (Linseed Oil)
Specific Gravity	2.8 (Helium Displacement)
Hardness	2 (Mohs)
Reflectance	60 (Opacity Reflectometer)
Melting Point	Ca. 1320 <sup>0</sup> C
Sintering Temp.	Ca. 1250 <sup>0</sup> C
Appearance	Grey to slightly off-white colour with a glittering pearlescent quality
Toxicity	Generally inert; non-carcinogenic; unaffected by mild acids and alkalis
Bulk Density	Loose: 320g/l Tapped: 570g/l
Packaging	25kg polypropylene bags, packed into 500kg bulk bags



**PARTICLE SIZE ANALYSIS (Laser Diffraction)**



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**Date:** September 2010

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