

MICA 8

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.

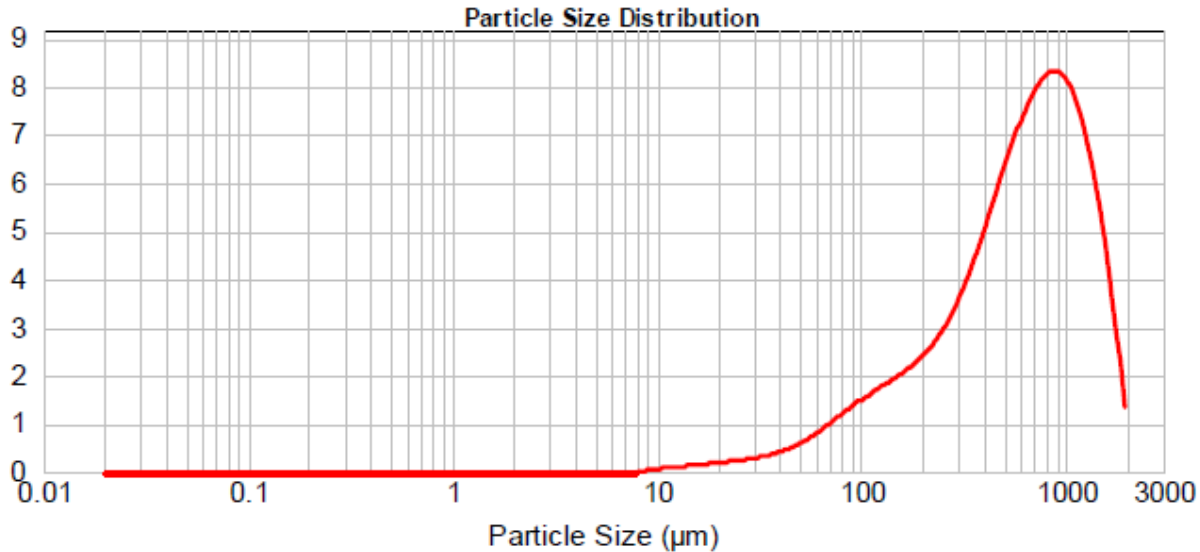
TYPICAL CHEMICAL ANALYSIS

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

TYPICAL PHYSICAL ANALYSIS

Particle Sizing	<1.0% retained at 2.5mm
Oil Absorption	60 - 70% (Linseed Oil)
Specific Gravity	2.8 (Helium Displacement)
Hardness	2 (Mohs)
Reflectance	60 (Opacity Reflectometer)
Melting Point	Ca. 1320 ⁰ C
Sintering Temp.	Ca. 1250 ⁰ 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: 400g/l Tapped: 700g/l
Packaging	25kg polypropylene bags, packed into 500kg bulk bags

PARTICLE SIZE ANALYSIS (Laser Diffraction)



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