

Product Information

Metakaolin

Product Description:

Metakaolin is a medium particle size clay produced by the calcination of the clay mineral kaolinite under controlled conditions. This product has good dispersibility, good pozzolanic activity, high purity and strong chemical inertness. The addition of metakaolin results in improved volume resistivity, ageing resistance, sulfate resistance, strength in mineral systems, improved brightness and whiteness.

Applications:

Metakaolin is used as a pigment and functional extender in paints and coatings. It is used as an acid scavenger and insulating additive in PVC cable sheathing. It is used in ceramic production and as a cement replacement in concrete, can be used in oil & gas well cementing systems.

Specifications:

Parameters (units)	Specifications
Whiteness (%)	80 - 85
Particle size distribution, particles under 2 µm (%)	≥ 80
Residue retained on 325 mesh, approx. (%)	0.005
Fixed Ca(OH) ₂ value, Chapelle test (mg Ca(OH) ₂ /g)	≥ 1400
Volume resistivity, approx. (Ω.cm)	1.0 × 10 ¹³
Moisture, approx. (%)	0.5
SiO ₂ (%)	52 - 56
Al ₂ O ₃ (%)	42 - 46
Fe ₂ O ₃ (%)	< 0.6
TiO ₂ (%)	< 1
MgO (%)	< 0.3
CaO (%)	< 0.5
K ₂ O (%)	< 0.1
Na ₂ O (%)	< 0.2
Loss on ignition (%)	< 1

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Packaging:

Material is available in 25 kg bags and 500 kg bags. Further packaging options may be available upon enquiry.

Storage:

Product should be stored in a dry place away from direct sunlight in sealed, original packaging.

Safety:

For further safety information refer to product SDS available from your Bisley International contact.

Disclaimer: This document is for information purpose only. Customers are responsible for testing and conforming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.

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