

Kaolin

FEATURES AND BENEFITS

The Kaolin range of products are mined from our own deposit that forms part of the well-known Grahamstown Kaolinite complex and mined in the Makana area of the Eastern Cape province in South Africa.

Kaolin offers stable firing colour, good dry and wet brightness, inertness and acid resistance, heat stability, free-flowing fluidity in dry form and excellent firing properties.

The main uses of Kaolin include:

- ❖ In ceramics as an alkali (potassium and sodium) containing constituent in ceramic slips, frits and glazes and where low plasticity is required.
- ❖ In soaps and personal care: As a functional filler in laundry and personal care soaps and powders.
- ❖ In welding electrodes and refractory applications for the alumina content.
- ❖ As a fluidiser in fire extinguisher powder applications.
- ❖ In agriculture for animal feed pelletizing as a binder and slip-aid.
- ❖ As a functional carrier and diluent in pesticide and herbicide production.

DATASHEET REVISION

Revision Number	07
Revision Date	07/05/2019

CHEMICAL ANALYSIS

Mean values. These do not represent a specification.

SiO ₂	68.51 %
Al ₂ O ₃	20.37 %
Fe ₂ O ₃	0.54 %
K ₂ O	2.98 %
Na ₂ O	<0.10 %
MgO	<0.30 %
TiO ₂	0.84 %
Other	<0.15 %

PARTICLE SIZE ANALYSIS AND PROPERTIES

Mean values. These do not represent a specification.

		STD	SUPER	FF
Trade Names		Kaolin Std.	Kaolin Super	Free-Flowing
% Retained @ 45 µm	% weight	** <1.0	** <1.0	** <1.0
Average Particle Size, d ₅₀	µm	5.8	5.8	5.8
Moisture Content (LOI)	%	<6.0	<6.0	<2.0
Oil Absorption	%	28	28	28
Reflectance (Opacity Reflectometer)	%	66	74	77
Bulk Density (As Packed)	kg/litre	0.55	0.55	0.58
Specific Gravity	kg/litre	2.70	2.70	2.70
Hardness	mohs	1	1	1
Melting Point	°C	>900	>900	>900
Packaging: 1000kg bulk bags		Yes	Yes	Yes
25kg packed bags		Yes	Yes	Yes

** Quality controlled by means of wet sieve analysis

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