

Glenhoek Ball Clay - White

Product Description

Clay minerals refer to the components of minerals which provide plastic (or plasticity) properties to the mineral ore. Ball Clay is a kaolinite rich mineral, produced by the hydrothermal weathering of feldspars, which occur naturally near Grahamstown in the Eastern Cape Province of South Africa. Ball clays or plastic clays as they are known are fine grained, sedimentary clays which vary in plasticity and fire to a white or near white colour.

Product Industries

Ball Clays are widely used in the manufacture of sanitary-ware, table ware, decorative ceramics, roof, wall & floor tiles, glazes and engobes, bricks and refractory products. They are valued for their key properties of plasticity, unfired forming strength (green strength) and their fired colour.

Typical Physical Analysis


Particle Sizing *	Raw Lumps and Fines (under 300mm)
Oil Absorption	N/A
Specific Gravity	2.6 (Helium Displacement)
Hardness	2-3 (Mohs)
Reflectance (fired)	Unfired <75 (Opacity Reflectometer)
Melting Point	N/A
Bulk Density	Lumps: 1450 g/l
Free Moisture (%)	5.0 - 11.0%
Stability	Indefinite shelf life
Packaging	Loose Bulk in Tipper Trucks

* Quality controlled by means of wet sieve analysis

Typical Chemical Analysis

SiO ₂	60.21%
Al ₂ O ₃	26.88%
Fe ₂ O ₃	1.22%
TiO ₂	0.91%
MgO	0.25%
Na ₂ O	0.99%
CaO	0.13%
K ₂ O	2.33%
Loss on Ignition (LOI)	6.81%

Datasheet Revision

Compiler Name	Bernard Potgieter
Compiler Position	Chief Operating Officer
Specification Owner	Technical Services
Revision Date	Monday, 01 October 2018
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Approval Signature	

Disclaimer

All information herein contained is typical, accurate and factual to the best of our knowledge. We continuously employ various quality control procedures to maintain these quality levels on all of our products. However, no warrantee is suggested or implied in respect of any recommendations, advice or suggestions made by our representatives, or any other person or persons associated to us, as the conditions, production, process and methods of use of our products may vary from time to time.

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