108 Pebble Lane, Clayville ext. 14, Olifantsfontein, SA
Tel: +27 11 316 4390 (SA) or +27 87 351 4886 (VOIP)
Fax: +27 11 316 4395
www.metadynamics.co.za

CALCIUM BENTONITE *is an absorbant clay that typically forms after volcanic ash ages. The clay consists of mostly montmorillonite.*

USES

CALCIUM BENTONITE is used for drilling mud, binder (foundary-sand bond, iron ore pelletizer), purifier, absorbent (pet litter) and as a groundwater barrier. It is also used as a filler and as an ingredient in proprietary formulations in adhesives, grouts and mortars.

PRODUCT DESCRIPTION

BENTONITE is an absorbent aluminium phyllosilicate; essentially impure clay consisting mostly of montmorillonite: $(NaCa)_{0.3}$ $(AlMg)_2$. $Si_4O_{10}(OH)$ n (H_2O)

PHYSICAL PROPERTIES

Colour: brown
Moisture: 11.5
Bulk density: 0.85 – 1.0 g/cm^3
Siev grading (150 Micron): <5%
Siev grading (75 Micron): <10%
pH: 9

CHEMICAL PROPERTIES

Chemical	**%**
SiO_2	57
Al_2O_3	19.6
CaO	5.08
Fe_2O_3	8.08
MgO	8.85
Na_2O	0.31
K_2O	0.21
LOI	13.67

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TYPICAL MINERALOGY

Mineral	%
Calcite	4.97
Gypsum	1.32
Kaolinite	0.63
Mordenite	1.81
Muscovite	4.34
Plagioclase	9.43
Quartz	19.70
Smectite 12A	48.60

PACKAGING:

Tankers
Bulk Bags

STORAGE:

Store in a cool, dry place.

SAFETY PRECAUTIONS

Keep out of reach of children
Avoid inhalation of powder and dust
Ensure good ventilation during application & drying
In case of skin contact, wash with soap and water