TECHNICAL DATA SHEET

Product Group: Bentonite

DESCIPTION:

The natural Bentonite can be described as Na-Ca-Bentonitic clay in so far as its smectite content is concerned. Uses for Bentonite include pelletization of Chrome, coal and iron fines, treatment of AMD (acidic mine drainage), sealing of macro dump and slimes dump floors.

MINERALOGICAL CONSTITUENTS (Approximate)

Analyses of the clay sample with the values indicating the mineral content in % with * = smectite type= Montmorillonite**illite

MINERAL	PERCENTAGE
Qyartz	30
Clay*	65
Plagioclase	2
Mica**	<2
Kaolinate	<2
Calcite	<2

TYPICAL CHEMICAL ANALYSIS

SiO_2	Al_2O_3	MgO	CaO	Na_2O	K_2O	FeO	TiO_2	CO_2
52.5	14.3	1.8	2.9	0.8	1.7	6.5	0.8	17.8

PHYSICAL PROPERTIES

Moisture (% by weight)	11.5
Viscosity (s)	22.8
pH (5% in H_2O)	8.4
Wet screen Analysis- Grit=53µm (%by weight)	5.9
Base Exchange Capacity (Meq/100g)	33.5
Free swell (ml/2g)	10.5
Sinter Plate Absorption (%)	370.1
Compact ability (%)	56.5
Green Compressive Strength (Kpa)	62.4
Dry Compressive Strength (Kpa)	267.2
Shatter Index (%)	51.2
Dry Screen Analysis + 75µm (% by weight)	7.8

DATA ARE TYPICAL OUR NORMAL PRODUCTION AND ARE SUBJECT TO NORMAL VARIATION, THEY SHOULD NOT BE TAKEN AS A BINDING SPECIFICATION, WHERE A PROPERTY IS CRITICAL, CONFIRMATION SHOULD BE OBTAINED FROM EARTH DELIGHTS.

HEALTH AND SAFETY

Bentonite is a product which may generate dust when handled in dry conditions. A dust mask is recommended. Handling of gloves or the use of a barrier cream will prevent drying of the skin.
The product is slippery when wet and caution is recommended in wet conditions.

.