



Volcon[®]

Typical Values and Properties

General Description

A moderate to high swell sodium activated bentonite exhibiting variable dry particle size.

Functional use

Construction and drilling grade bentonite. Volcon[®] imparts excellent swell with good viscosity. Can be use in a variety of construction areas, including bore-piling and diaphragm wall construction.

Purity

Hydrous silicate of alumina comprised principally of the clay mineral montmorillonite. Montmorillonite content 75% minimum. Contains small portions of feldspar biotite,selenite,etc.

Chemical Composition (Typical Values may vary somewhat as the material is a naturally occurring mineral)

Oxide (wt.%)

Silica (SiO ₂)	56.80
Alumina (Al ₂ O ₃)	15.10
Iron Oxide (Fe ₂ O ₃)	9.79
Magnesium (MgO)	4.61
Sodium & Potassium (Na ₂ O)	2.01
Lime (CaO)	2.81

Moisture Content

14% max. as processed in Thailand

Dry particle size

70% finer than 200 mesh (75 micron)

Packaging

multi-wall kraft paper bags, 50-kg. Net.

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VOLCON (drilling fluid) Typical Values

Free Swell (mls)	18 min.
API Fann 600	30 min.
YP/PV	6 max.
Moisture %	14 max.
Grit (<75microns)%	2.5 max.

Description: VOLCON is a 200 mesh/75 micron, OCMA grade, sodium activated bentonite for general drilling purposes.

Recommended Use: May be used for all types of rotary drilling and borepiling where high barrel yield is desired. VOLCON is an excellent diaphragm wall and slurry-trenching product with moderate to high viscosity depending on concentration.

Advantages:

- Mixes quickly and easily
- Stabilizes borehole
- Removes cuttings
- Cools and lubricates bit

Application: Water purity will affect bentonite performance, fresh water should be used at all times if site conditions allow. For best results, acidic and hard make up water should be pretreated with soda ash to a pH of 8.5 – 9.0

Approximate mixing rates (General indication only)
VOLCON mixing ratio in lbs. Per 100gal. of water. (378.5 lit)
 Rates may vary according to needs and type of use.

Normal Conditions.....	30-50lbs.(13.6 – 22.7Kgs), 3.6-6.0% by weight
Sand and Gravel.....	50-70lbs.(22.7 – 31.8Kgs), 6.0-8.4% by weight

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