



Bentonite

Description

Bentonite is an absorbent aluminum phyllosilicate clay mainly consisting of montmorillonite.

The different types of bentonite are each named after the relative dominant element, such as potassium (K), sodium (Na), calcium (Ca), and aluminum (Al).

| Calcium Bentonite (Natural) | |
|--------------------------------|--------|
| CHEMICAL COMPOSITIONS | |
| SiO ₂ | 57.72 |
| Al ₂ O ₃ | 22.57 |
| Fe ₂ O ₃ | 5.63 |
| CaO | 0.45 |
| MgO | 1.95 |
| MnO | < 0.01 |
| Na ₂ O | 0.87 |
| K ₂ O | 0.94 |
| P2O ₅ | < 0.01 |
| TiO ₂ | 1.54 |
| CL | 1.14 |
| SO ₃ | 0.13 |
| L.O.I | 6.59 |



| Testing Required | Unit | OCMA | OCMA GEL | MEGA GEL |
|---|---------------------|------|----------|----------|
| Yield | m ³ /ton | 15 | 18.3 | 24 |
| Dry Screen analysis passing 100 us mesh | % | 99 | 99.5 | 99.5 |
| Moisture Content at 105 Oc | % | 10.3 | 10.3 | 10.3 |
| Filter Loss (30 min) | MI | - | 15 | 15 |
| PH of 5% distilled water | - | 9.5 | 9.4 | 9.4 |
| Wet screen residue on 200 mesh | % | 0.2 | 0.5 | 0.5 |
| Marsh funnel viscosity of 4% | sec | 40 | 37 | 45 |
| Swilling | cc/1g | 12 | | |

Uses:

-Groundwater barrier - Medical - Bentonite slurry walls in modern construction - Pottery
 - Clay Mask - Fertilizer - Waterproofing - Foundry industry - bonding agent - Absorbent
 - used in casting - Ceramics - Drilling pulp - Oil drilling - Construction cement - Chemical industry - Paper - Rubber - Paint - ink - Daily chemical - Coating - Textiles - Poultry feed additives - Animal litter soil (deodorization) - Agriculture - For soil improvers - Compost additives - Adhesives.

