PROLAT NATURAL INNOVATIVE MATERIALS

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## TECHNICAL DATA SHEET

# BENTONITE FOR FOUNDRY FBM

Bentonite is an absorbent aluminium phyllosilicate, impure clay consisting mostly of montmorillonite. There are different types of bentonite, each named after the respective dominant element, such as potassium, sodium, calcium, and aluminium. Bentonite usually forms from weathering of volcanic ash, most often in the presence of water.

However, the term bentonite, has been used to describe clay beds of uncertain origin. For industrial purposes, two main classes of bentonite exist: sodium and calcium bentonite.

| **Chemical characteristic:** | **Physical characteristics:** |
|---|---|
| SiO2 64.63 % | Moisture contend [% bw,max] 10,00 |
| Al2O3 13.70 % | Methylene Blue Absorption [mg/g,min] 350,00 |
| Fe2O3 2.72 % | Swelling Index [ml/2g,min] 24,00 |
| CaO 3.94 % | GCS [N/cm2,min] 9,20 |
| MgO 2.26 % | WTS [N/cm2,min] 0,25 |
| K2O 0.16 % | GCS [N/cm2,at 550 0C,min] 6,20 |
| Na2O 2,32 % | WTS [N/cm2,at 550 0C,min] 0,14 |
| | Mesh size [passing through IS 200 mesh] 85,00 |
| | Total Carbonates after activation [%,max] 8,50 |
| | PH value [at 2,00 slurry,min] 9,50 |


**PACKING**

30KG PAPER BAG, 1500KG PALLET