



Na-Montmorillonite Bentonite



PRODUCT DESCRIPTION

Sodium montmorillonite swells to many times its dry volume in water, building the yield point and gel strength a drilling fluid needs to lift cuttings, and forming a thin, low-permeability filter cake against the borehole wall. The same sealing behavior is why it is the default material for slurry walls, landfill liners, and pond sealing.

TYPICAL SPECIFICATIONS

PROPERTY	VALUE	BASIS
Standard	API 13A / ISO 13500 drilling grade	Per standard
Viscometer dial reading at 600 rpm	30 minimum	Per standard
Yield point / plastic viscosity ratio	3 maximum	Per standard
Filtrate volume	15 mL maximum	Per standard
Residue greater than 75 µm	4.0% by mass maximum	Per standard
Moisture	10% maximum typical	Typical

PRINCIPAL INDUSTRIAL APPLICATIONS

- Drilling Fluids**
Builds viscosity and gel strength for cuttings transport, and controls fluid loss into permeable formations through filter cake development.
- Civil & Geotechnical**
Slurry wall construction, geosynthetic clay liners, pond and lagoon sealing, and horizontal directional drilling support.
- Foundry & Pelletizing**
Serves as a green-sand binder in metal casting and as a binder in iron ore pelletizing operations.

PACKAGING & AVAILABILITY

- Pneumatic bulk tanker
- 100 lb bags

HANDLING & STORAGE

Non-hazardous. Keep dry — premature hydration ruins yield. Dust control during transfer recommended; wet bentonite is extremely slippery.

A Safety Data Sheet (SDS) is available for this product on request and should be reviewed before handling.

ORDERING & TECHNICAL SUPPORT

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IMPORTANT NOTICE

The information in this data sheet is provided in good faith and is believed accurate at the date of issue. Values marked "Typical" represent commercial norms and are not a specification; the certificate of analysis for your specific shipment governs. Values marked "Per standard" are requirements of the cited standard. Mix Minerals makes no warranty, express or implied, regarding suitability for any particular application. The user is responsible for determining suitability and for safe handling in accordance with the applicable Safety Data Sheet.