

Product Data Sheet

API Drilling Grade Bentonite (API 13A Sec.9)

Description

Description	API drilling grade bentonite is a high-grade sodium-montmorillonite clay conforming to API 13A Section 9. It acts as a viscosifier and filtration-control agent in water-based drilling mud systems, controlling borehole stability, extracting drill cuttings, and cooling the drill bit.
Applications	Used as a viscosifier and filtration-control agent in water-based drilling muds for oil, gas, and water-well drilling and civil foundation works.
Used In	Oil & gas drilling, water-based mud, viscosifier, filtration control

Key Benefits

- Conforms to API 13A Section 9
- High montmorillonite content ($\geq 75\%$)
- High swelling index (≥ 20 mL/2g) for viscosity build
- Effective filtration control (filtrate ≤ 15 mL)
- Controls borehole stability, extracts cuttings, cools the bit

Chemical Analysis & Physical Data

Technical Specification

Parameter	Specification (API 13A Sec.9)
Montmorillonite	$\geq 75\%$
Moisture	Max. 13%
Swelling Index	≥ 20 mL/2g
Viscometer @ 600 rpm	≥ 30
Yield Point / Plastic Viscosity (YP/PV)	Max. 3
Filtrate Volume	Max. 15 mL
Residue > 75 μ m (200 mesh)	$\geq 97.5\%$ passing
pH (6% suspension)	8 – 10

Physical Properties

Property	Specification
Form	Fine powder
Standard	API 13A Section 9
Particle Size	$\geq 97.5\% < 75 \mu\text{m}$
Moisture	Max. 13%
Origin	India

* Conforms to API 13A Section 9 for drilling-grade bentonite. Test methods available upon request.

Packaging

- 25 kg / 50 kg PP / HDPE woven bags
- 1 MT / 1.25 MT Jumbo Bags (FIBC)
- Loose in bulk for large industrial / export orders
- Custom packaging available on request.

Storage & Handling

- Store in a dry, covered area protected from moisture
- Bentonite is hygroscopic – keep bags sealed until use
- Avoid dust generation; provide adequate ventilation
- Handle with appropriate PPE to control dust

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Specifications vary by mine and lot; figures are typical values. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.