

Product Data Sheet

Sodium Bentonite

Description

Description	Sodium bentonite is a natural sodium-montmorillonite clay with exceptional swelling and water-absorption properties. Sourced from premium Kutch (Gujarat) deposits, it swells 10–30x its dry volume, making it ideal for drilling fluids, sealing, and foundry applications. May be supplied natural or soda-ash activated.
Applications	Used in drilling fluids, geosynthetic clay liners and pond/landfill sealing, foundry green-sand bonding, civil engineering, and iron-ore pelletisation.
Used In	Drilling fluids, sealing/liners, foundry, pelletisation

Key Benefits

- High swelling – 10–30x dry volume
- Very high water absorption
- High montmorillonite content
- Premium natural sodium type from Kutch / Gujarat
- Available natural or soda-ash activated

Chemical Analysis & Physical Data

Technical Specification

Parameter	Specification
Montmorillonite Content	High
Swelling Ratio	10 – 30x dry volume
Water Absorption	Very high
Moisture	Max. 12%
Colour	Grey / off-white
Activation	Natural or soda-ash activated

Physical Properties

Property	Specification
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Form	Powder or granules (customisable)
Typical Fineness	200 / 325 mesh (to spec)
Origin	Kutch / Gujarat, India
Colour	Grey / off-white
pH (in suspension)	Approx. 8.5 – 10.5

* Typical values; mine- and lot-dependent. 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.