



API Grade Bentonite (High Yield) – Technical Specification

Property	Unit	Standard / Method	Result
Product Type	—	—	Sodium Bentonite (API Grade – High Yield)
Appearance	—	Visual	Fine Powder
Moisture Content	%	API 13A	≤ 13
600 RPM Dial Reading	—	API 13B-1	≥ 70
Yield	bbbl/ton	API 13A	≥ 90
Filtrate Loss	ml	API 13B-1	≤ 18
Residue (>75 µm)	%	API 13A	≤ 4.0
Swelling Index	ml/2g	Internal / Typical	≥ 24
pH (5% Slurry)	—	API Method	9.5 – 10.5
Specific Gravity	g/cm ³	ASTM D854	2.4 – 2.6
Gel Strength (10 sec / 10 min)	lb/100 ft ²	API 13B-1	3–5 / 8–12
YP / PV Ratio	—	Calculated	≥ 1.5
Packaging	—	—	25 Kg Bags / 1 MT Jumbo

Application Description

API Grade Bentonite (High Yield) is widely used in water-based drilling fluid systems across oil & gas, water well, and horizontal drilling operations. It acts as an efficient viscosifier and filtration control agent, improving mud rheology, enhancing cuttings suspension, and stabilizing wellbore walls. The product forms a thin, low-permeability filter cake that minimizes fluid loss and prevents formation damage, ensuring smoother drilling performance and reduced operational risks.