

Technical Data Sheet
High Yield Bentonite

Revised 09/20/07

VOLCLAY® SUPER GEL

Description	Super Gel is a 200 mesh, high viscosity 180 bbl. yield sodium bentonite for use in all freshwater drilling applications. Super Gel is a select polymerextended Wyoming bentonite product designed to produce very high yield in low solid mud systems.
Functional Use	May be used for all types of freshwater drilling. Super Gel meets or exceeds all applicable petroleum industry standards for polymer-extended bentonite quality.
Purity	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Contains small portions of feldspar, calcite, and quartz.
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33} (\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$
Advantages	Highly concentrated for maximum yield Fast and easy mixing Reduces solids and increases lifting power Removes cuttings Cools and lubricates bit Stabilizes boreholes Helps prevent loss of circulation.
Bulk Density	Typically 54 lbs./ft ³
Moisture	Maximum 12% as shipped.
pH	8.5 to 10.5 @ 5% solids
Dry Particle Size	Minimum 65% passing 200 mesh (74 microns).
Wet Particle Size	Minimum 94% passing 200 mesh (74 microns). Minimum 92% passing 325 mesh (44 microns).
Bulk Density	54 lbs./ft ³
Packaging	Bulk or palletized in carload and truckload quantities. 100 lb. & 50 lb. multiwall, water-resistant bags or 2,000 lb. bulk bags

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