



## Petroleum Products

# VOLCLAY<sup>®</sup> Premium Gel

### API Grade Bentonite

Premium Gel is a 200 mesh, high viscosity 180 bbl. yield sodium bentonite for use in freshwater drilling where higher solids are required. It complies with the American Petroleum Institute, drilling fluid specification 13A, section 9, for bentonite.

#### Purity

- Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite
- Contains small portions of feldspar, calcite and quartz

#### Advantages

- Mixes quickly and easily
- Stabilizes the borehole
- Removes cuttings
- Cools and lubricates the bit
- Reduces fluid loss into the formation

### Technical Specifications

Product	Bulk Density (lbs./ft <sup>3</sup> )	Moisture (As Shipped)	pH	Mesh	Dry Particle Size	Wet Particle Size
Volclay Premium Gel	Typically 54	12% maximum	8.5 to 10.5 @ 5% solids	200	5% minimum passing 200 mesh (74 microns)	94% minimum passing 200 mesh (74 microns)  92% minimum passing 325 mesh (44 microns)

Chemical Formula: Dioctahedral smectite, an expanding layer silicate -  $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$ .

Packaging: Bulk or palletized in carload and truckload quantities. 100 lbs. and 50 lbs. multiwall, water-resistant bags or 2,000 lbs. bulk bags.

