

Technical Data Sheet
High Yield Bentonite

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VOLCLAY[®] CGB-211

Description	Volclay [®] CGB 211 is a high-yield, 200 mesh sodium bentonite for freshwater drilling. Volclay [®] CGB 211's unique blend of smectite minerals delivers improved rheological properties over traditional premium grade bentonites.
Functional Use	May be used for all types of freshwater drilling where lower solids are required.
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	Mixes quickly and easily Stabilizes the borehole Removes cuttings Cools and lubricates the bit Reduces fluid loss into the formation
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).
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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