

**Technical Data Sheet
Granular Bentonite**

Revised 09/21/06

VOLCLAY® COARSE CHIPS

General Description	Volclay® Coarse Chips are natural sodium bentonite screened to 3/8" to 3/4" in size.
Functional Use	Sealing shallow boreholes and seismic shot holes.
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	Chemically stable. TCLP Priority Pollutants analysis are below RCRA limits for hazardous constituents. Provides a high-solid clay seal. Provides a barrier from surface contamination. Provides a permanent, flexible seal.

Application Table

Hole Diameter (In.)	2"	4"	6"	8"	10"	12"	14"
Pounds of chips per linear ft.	1.5	6	14	24	37.5	54	73

(Approximate Recommendations)

Mixing	Bagged material should be screened of fines before applying. Pour chips slowly down hole to prevent bridging or binding. In unsaturated conditions, water should be added at 2-ft. intervals to ensure adequate hydration.
Bulk Density	Typically 67 lbs./ft ³
Moisture	Maximum 12% as shipped
pH	5% suspension 8.5 to 10.5
Packaging	Bulk or palletized in carload and truck load quantities. 100 lb. & 50 lb. multiwall, water-resistant bags or 2,000 lb. bulk bags.

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