



Petroleum Products

VOLCLAY Chips®

Granular Bentonite

There are three types of Volclay Chips which are all natural sodium bentonite's that seal shallow boreholes and seismic shot holes. Course chips are screened from 3/8" to 3/4" in size; Medium chips are screened from 1/4" to 3/8" in size; and, fine chips are screened from 1/8" to 1/4" in size.

Mixing Instructions

Bagged material should be screened for fines before applying. Pour chips slowly down hole to prevent bridging or binding. In unsaturated conditions, water should be added at two-foot intervals to ensure adequate hydration.

Purity

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

Advantages

- Chemically stable – TLCP Priority Pollutants analysis is 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

Note: Approximate recommendations

Technical Specifications

Product	Bulk Density (lbs./ft ³)	Moisture (As Shipped)	pH
Volclay Chips	Typically 67	12% maximum	8.5 to 10.5 @ 5% suspension

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.

