

TEAGUE MINERAL PRODUCTS



TMP Custom Sealant Bentonite

TMP Custom Sealant Bentonite

is a high-swelling sodium bentonite of exceptional purity, and is not treated with polymers. Mined and processed in southeastern Oregon, it offers superior performance for use as a soil sealant. It forms impermeable barriers for *sanitary landfills, hazardous waste sites, sewage lagoons, wetlands*, and other facilities.

Application rates primarily depend on the on-site soil and target hydraulic conductivity (permeability.) One or more permeameter and/or barrel tests using the on-site soil provide the best method of determining the correct **TMP Custom Sealant** - to soil mix. Proper mixing and compaction are essential for a good seal. Prehydration is necessary if the facility will hold fluids other than clean water.

These specifications and recommendations provide general guidelines only. They are not intended as a substitute for detailed engineering and specifications, which should be project specific.

TMP CUSTOM SEALANT
Sodium Bentonite



Specification and Typical Properties

- **Swell Index:**
2 gram sample (powder) in 100 ml water, aged 24 hours, minimum, 16 ml
- **Colloid Content:**
2% suspension, aged 24 hours, 85% - 95%
- **No Polymer Additives**
- **API Grit: Less than 1%**
- **API Yield:**
Minimum 80 barrels/ton
- **Semi-Granular Size:**
Up to 15% plus 20 mesh
Up to 20% minus 200 mesh
- **Cation Exchange Capacity:**
80 to 90 mill equivalents per 100 grams
- **Mineralogy by X-ray Diffraction:**
Smectite-85% - 95% Quartz, Feldspar, Calcite, Gypsum-less than 1% each.
- **Moisture Content:**
14%-16% TMP Bentonite is in its natural dry state at this moisture. Due to a smaller flake size, and a higher montmorillonite (clay) content, TMP bentonite has more retained water in its internal molecular structure than similar Wyoming types, while the bulk density is the same.
- **Approximate Weight:**
1,890—1998 lbs. per cubic yard
- **Certified:**
NSF Certified to NSF/ANSI 60

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