

SUPER PLUG

All-natural bentonite plugging material

APPLICATIONS

- Plug and abandonment

ADVANTAGES

- Composed of all-natural bentonite
- Hydrates easily
- Sets efficiently

LIMITATIONS

- Limitations are the same as for most bentonite products. High chlorides and calcium decrease the yield of this product.

SUPER PLUG* all-natural bentonite plugging material is a 100% inorganic additive designed to minimize environmental impacts in hole-abandonment applications. The material is designed to offer superior sealing characteristics where low-permeability, flexible seals are required.

Method of addition

Mix one 50-lb [22.7-kg] bag of material with 33 to 43 galUS [125 to 163 L] fresh water. This mixture is pumpable with most available pumping equipment. Though progressive cavity or positive displacement pumps offer the best results, diaphragm or gear pumps can also be used.

Toxicity and handling

Bioassay information is available upon request. Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the MSDS.

Packaging and storage

SUPER PLUG material is packaged in 50-lb [22.7-kg] multiwalled, moisture-resistant bags. It is also available in super sacks. Store in a well-ventilated area away from sources of heat or ignition.

Typical Physical Properties

Physical appearance	Light tan to gray powder
Specific gravity	2.45–2.55
pH	8.0–10.0 (5% aqueous suspension)
Solubility	Insoluble in water, forms colloidal suspension

Super Plug Slurry at Various Solids Content

Super Plug, lb (kg)	Water gas, lb/galUS [kg/L]	Density, lb/galUS [kg/L]	Fluid Loss, cm ³ [in ³]	Solids Content
50 (22.7)	33 (125)	9.2 (1.10)	8.9 (0.54)	15.4%
50 (22.7)	43 (163)	9 (1.08)	13 (0.8)	12.1%