

## TECHNICAL DATA SHEET

Environmental Grout &  
Sealant

# GRANULAR SEAL

## GRANULAR SODIUM BENTONITE



### DESCRIPTION

**Granular Seal** is a high swelling, chemically unaltered sodium bentonite which contains no additives. When **Granular Seal** comes into contact with water, it forms a semi solid, gel-like mass which fills formation voids and limits water movement within the hole. This semi solid mass also prevents surface water from following the bore hole to subsurface water supplies.

### APPLICATION

**Granular Seal** offers an economical way to accomplish bentonite grouting. It provides a high concentration of solids for hole abandonment and sealing casing. **Granular Seal** can be poured dry or used as a mixed grout for tremie placement.

**Granular Seal** adds no contaminants in monitoring well applications. For deep settings use **Super Mud**, synthetic polymer, which will retard the swelling, allowing the **Granular Seal** to be mixed with water and pumped to its final destination before full hydration, where it will form a permanent seal. Not recommended for use with rubber geared pumps.

### RECOMMENDED USAGE

Using a grout mixer, add one 50 lbs (22.68 kgs) bag of **Granular Seal** to 25 gallons of water, thoroughly mix and tremmie into place. For deep settings, slowly and thoroughly mix 3 ounces (85g) of **Super Mud** per 25 gallons (94.6 liters) of water before adding the **Granular Seal** to the mix.

### PACKAGING

Available in 50 lb polyethylene bags.

### CHEMICAL ANALYSIS

SiO <sub>2</sub>	66.60	%
Al <sub>2</sub> O <sub>3</sub>	17.60	%
Fe <sub>2</sub> O <sub>3</sub>	3.67	%
CaO	0.57	%
MgO	1.80	%
Na <sub>2</sub> O	2.50	%
K <sub>2</sub> O	0.31	%
Bound Water	6.51	%
Moisture at 20 <sup>0</sup> F	0.14	%

### X-RAY ANALYSIS

Montmorillonite	85	%
Quartz	5	%
Feldspars	5	%
Cristobalite	2	%
Illite	2	%
Calcium & Gypsum	1	%

