

ENVIRONMENTAL • WATERWELL • GEOTECHNICAL • GEOTHERMAL

BENTONITE PLUG

Natural sodium
Bentonite chips
For use in:

- *sealing casings*
- *plugging flow holes*
- *monitoring well isolation aquifers*
- *well decommissioning*
- *grounding rods*
- *geothermal wells*



TECHNICAL DATA SHEET

Environmental Grout & Sealant

BENTONITE PLUG

SODIUM BENTONITE CHIPS



DESCRIPTION

Bentonite Plug - 3/8" western sodium bentonite chips.

APPLICATION

Bentonite Plug is primarily used for sealing wells, borehole, and monitoring well construction. **Bentonite Plug** can be poured in the hole dry, no mixing required. Upon hydration forms a flexible gel-like mass which fills formation voids and prevents surface contaminants from reaching subsurface groundwater.

USAGE CHART

Hole Diameter	2.5"	3.5"	4"	4.5"	5"	5.5	6"	6.5"	8"	10"
Lbs/Ft	2.5#	5#	6.75#	8.5#	10.75#	12.5#	15.5#	20.5#	28#	41#
Ft of Seal/Bag	20	10	7.5	5.75	5	5	3.25	2.5	1.75	1.25

NOTE: These are dry weights and volumes. In use, the swelling of the chips may increase the length of the seal (depending on hole condition).

PACKAGING

Available in 50 lb polyethylene bags and 3,000 lbs bulk bags.

TYPICAL CHEMICAL ANALYSIS

SiO ₂	52.70	-	54.80	%
Al ₂ O ₃	18.70	-	19.60	%
Fe ₂ O ₃	3.97	-	4.13	%
CaO	0.68	-	1.55	%
MgO	2.71	-	2.72	%
Na ₂ O	2.72	-	3.69	%
K ₂ O	0.58	-	0.60	%
TiO ₂	0.32	-	0.34	%

SPECIFICATION

<u>PROPERTY</u>	<u>TYPICAL ANALYSIS</u>
Moisture	8 - 15 %
pH	7.9 - 8.6 %
Volumetric Swell	8 - 15 %

XRAY ANALYSIS

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



NATIONWIDE SERVICE

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