

PDSCo GROUT

SODIUM BENTONITE



DESCRIPTION

PDSCo Grout is a specially formulated sodium bentonite. **PDSCo Grout** can be used for drilled hole abandonment, water well grout, sealing monitoring well casing or as a geothermal grout. Packaged in 50 lbs polyethylene bags.

MIXING

Mix in a grout mixer that will keep bentonite suspended in solution while mixing, such as a paddle or blade mixer. Not recommended for use with rubber geared pumps. The table below lists yields attainable for various mixing ratios.

Solid Content	Gallons of Water per 50 lbs Bag	Lbs. of Grout per Gallon of Water
20%	24	2.08
25%	22	2.25
30%	22	2.25 + 0.25 lbs. Portland Cement

20% Grout for twenty percent solids content the recommended mixing rate is 50 lbs. Grout to 24 gallons of water.

30% Grout contains higher solids content, larger batches are more manageable and remains pumpable longer. Pre mix 25 lbs Portland Cement to 100 gallons of water, then add 2.25 lbs per gallon PDSCo Grout. Grout should remain fluid and pumpable for hours then sets up as a rigid yet flexible grout.

Geothermal Grout Mix 50 lbs PDSCo Grout in 20 gallons of water then add fine sieve silica sand. The amount of sand and sieve size and silica content will determine the BTU transfer of the grout.

25% Grout = 0.43 BTU Transfer 25% Grout + 350 lbs silica sand = 1.20 BTU Transfer

MATERIAL SPECIFICATIONS

Dry Fineness	:	70.5% passing 40 mesh screen, 8.5% passing 200 mesh screen
Processed Bulk Density	:	58.0 ± 4 lbs/ft ³
Actual Bulk Density	:	146 ± 4 lbs/ft ³
Moisture content	:	7%
PH	:	5% slurry, 8 to 10.5
Specific Gravity	:	9.7 lbs/gal when prepared according to specifications
Slurry Solids Content	:	20% when prepared according to specifications

TYPICAL CHEMICAL ANALYSIS

ELEMENT		
SiO ₂	54.12	%
Al ₂ O ₃	19.00	%
Fe ₂ O ₃	6.00	%
TiO ₂	0.02	%
CaO	1.30	%
Na ₂ O	9.70	%
MgO	2.00	%
K ₂ O	0.46	%
MnO	0.40	%
Other	0.20	%
L.O.I	6.80	%

E. P. TOXICITY

	STD PPM	TYPICAL ANAL PPM
Arsenic	5.00	0.02
Barium	100.00	0.90
Cadmium	1.00	0.02
Chromium	5.00	0.06
Lead	5.00	0.10
Mercury	0.02	0.0008
Selenium	1.00	0.07
Silver	5.00	0.02

