PREMIUM GEL[®] DP **API BENTONITE**

DESCRIPTION

PREMIUM GEL® is a 200 mesh, 90 bbl yield sodium bentonite for freshwater drilling, slurry walls, and tunnel boring. PREMIUM GEL® complies with API 13A Section 9, Specifications for Drilling Fluid Materials.

RECOMMENDED USE

May be used for all types of freshwater mud rotary drilling where higher solids are desired. PREMIUM GEL® can also be used as a

seal for earthen structures, slurry trenching, tunnel boring, and foundation drilling.

CHARACTERISTICS

- Cools and lubricates bit
- · Mixes quickly and easily
- Reduces fluid loss into the formation
- Removes cuttings
- Stabilizes borehole

MIXING AND APPLICATION

Mixing ratios are based on the use of freshwater; water purity will affect bentonite performance. For best results, acidic and hard makeup water should be pretreated with SODA ASH to a pH of 8,5-9,5. Add PREMIUM GEL® slowly through jet/hopper mixer.

PACKAGING

25 kg bag, 40 per pallet, 650 kg or 1 ton big bag. All pallets are plastic-wrapped.

DRILLING FLUID AND SLURRY TRENCHING - PREMIUM GEL® MIXING RATIO **IN KG PER 1000 LITERS OF WATER**

CONDITION	KG OF PREMIUM GEL®	% SOLIDS
Normal Conditions	35-57 kg	3,5-5,7%
Sand and Gravel	58-77 kg	5,8-7,7%
Fluid Loss Control	78-88 kg	7,8-8,8%

MUD PROPORTIES – 6,04% SOLIDS			
PROPERTY	TYPICAL VALUE	SPECIFICATION/PROCEDURE	
Viscosity FANN 600 rpm	40 cps	30 cps Min – API 13A Section 9	
Viscosity FANN 6 rpm	11 cps	ACC TP-2005	
Viscosity FANN 3 rpm	11 cps	ACC TP-2005	
Yield – 42 gal bbl of 15 cps slurry/ton	90 to 120 bbl/tn	90 Min – API 13A Section 9	
Marsh Funnel, seconds/quart	42 seconds	ACC TP-1014	
Apparent Viscosity (AV)	15 to 25 cps	ACC TP-2005	
Plastic Viscosity (PV)	9 to 10	ACC TP-2005	
Yeild Point, lb/100 ft ²	15 to 25 lb/100 ft ²	ACC TP-2005	
Filtrate, 30 minutes at 100 psi, mi	13 to 15 ml	15 ml Max – API 13A Section 9	
Filter Cake, in	3/32 in	N/A	
рН	9,03	ACC TP-1018	

GENERAL PROPERTIES				
PROPERTY	TYPICAL VALUE	SPECIFICATION/PROCEDURE		
Moisture %	7,4%	ACC TP-2006		
Free Swell	28	ASTM D-5890		
Plate Water Absorption	622,80%	ASTM E946-92		
Specific Gravity	2,5	Generally Recognized		
Bulk Density Noncompacted	849 kg/m³	ACC TP-1005		
Bulk Density Compacted	1153 kg/m³	ACC TP-1005		
Grit % (<75 micron)	3,2%	4,0% Max – API 13A Section 9		
Particle Sizing	70% Min passing 75 µm sieve	ACC TP-1015		

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