

PREMIUM GEL® - AUS

API BENTONITE

DESCRIPTION

PREMIUM GEL - AUS is a 200 mesh, 90 bbl yield Australian sodium bentonite for freshwater drilling, slurry walls, and tunnel boring. PREMIUM GEL - AUS 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 - AUS 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 make-up water should be pretreated with SODA ASH to a pH of 8.5-9.5. Add PREMIUM GEL - AUS slowly through jet/hopper mixer.

PACKAGING

25 kg bags and 1.2 metric tonne bags

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

Condition	kg of PREMIUM GEL	% Solids
Normal Conditions	40 - 60 kg	3.8 - 5.7%
Sand and Gravel	60 - 85 kg	5.7 - 7.8%
Fluid Loss Control	85 - 95 kg	7.8 - 8.7%

SLURRY PROPERTIES - 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	9 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)	20 cps	ACC TP-2005
Plastic Viscosity (PV)	10	ACC TP-2005
Yield Point, lb/100 ft ²	20 lb/100 ft ²	ACC TP-2005
Filtrate, 30 minutes @ 100 psi, ml	13 ml	15 ml Max - API 13A Section 9
Filter Cake, in	3/32 in	N/A
pH	9.03	ACC TP-1018

GENERAL PROPERTIES

Property	Typical Value	Specification/Procedure
Moisture %	10%	ACC TP-2006
Free Swell	25	ASTM D-5890
Plate Water Absorption	622%	ASTM E946-92
Specific Gravity	2.5	Generally Recognized
Bulk Density Non-compacted	850 kg/m ³	ACC TP-1005
Bulk Density Compacted	1000 kg/m ³	ACC TP-1005
Grit % (<75 micron)	2%	4.0% Max - API 13A Section 9
Particle Sizing	70% Min passing 75 µm sieve	ACC TP-1015

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