

CGB-211

HIGH YIELD BENTONITE

DESCRIPTION

CGB-211 is a very high purity, 200 mesh, sodium bentonite used for all types of freshwater drilling where lower solids are required. The bentonite used for this product has high cation-exchange-capacity and will produce higher viscosity per given dosage than API 13 Section 9 bentonite.

RECOMMENDED USE

CGB-211 can be used as a stand-alone drilling fluid or used as the base for a higher-yield fluid with additional extending polymer. CGB-211 is often chosen as a filtrate-reducing material for use with cement-bentonite formulations where it will reduce bleed and filtrate loss. CGB-211 can also be used to produce high-quality, organo-modified bentonites.

PURITY

Natural Wyoming sodium bentonite consisting primarily of sodium montmorillonite with trace amounts of quartz, feldspars, and calcite. CGB-211 has a very high cation-exchange-capacity.

CHARACTERISTICS

- As a drilling fluid, CGB-211 will effectively lubricate the drill bit and remove cuttings from the hole
- Being completely polymer-free and finely divided, CGB-211 is also perfect for reducing water bleed, improving filtrate loss, and removing excess water from cementitious mixes
- This high cation-exchange-capacity sodium bentonite is ideally suited to the production of organo-modified bentonites
- Quick and easy to mix

MIXING AND APPLICATION

Water purity will affect bentonite performance. Bentonite should be ideally mixed in fresh, low-salinity water of neutral pH. When using as a drilling fluid, acidic and hard makeup water should be pretreated with SODA ASH to a pH of 8.5-9.5. Add CGB-211 slowly through jet/hopper mixer and circulate until homogenous and viscous.

Premix CGB-211 in freshwater prior to incorporation into cements and cement-bentonite grouts. A dosage of 5% by CGB-211 is typically used for cement additions although more or less can be used as determined by engineering specifications.

PACKAGING

~50 lb (~22.7 kg) bag, 48 or 70 per pallet, ~1 ton supersacks, or bulk. All pallets are plastic-wrapped.

TECHNICAL SPECIFICATIONS	
Property	Typical Value
Bulk Density Compacted	72 lbs/ft ³
Bulk Density Non-compacted	53 lbs/ft ³
Cation-Exchange-Capacity	95 meg/100 grams
Grit (<75 Micron)	3.2
Moisture %	7-10%
Particle Sizing (Mesh)	70% Minimum passing #200 mesh sieve
pH	8.5
Solubility	2.5

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