

# VOLCLAY® 180

## HIGH YIELD BENTONITE BOREHOLE STABILIZER

### DESCRIPTION

VOLCLAY 180 is a high yielding, bentonite drilling mud made from the highest grade Australian sodium bentonite. VOLCLAY 180 is designed as a one bag mix product. It contains polymer additives that provide excellent barrel yield and ultra-low fluid loss

### RECOMMENDED USE

VOLCLAY 180 can be used in the following applications: horizontal directional drilling, mineral exploration, water bores, civil engineering, rotary drilling and diaphragm walls.

### CHARACTERISTICS

- Cools and lubricates bit
- Helps prevent loss circulation
- Highly concentrated for maximum yield
- Mixes quickly and easily
- Reduces solids and increases lifting power
- Removes cuttings
- Stabilizes boreholes
- Helps prevent loss circulation

### MIXING AND APPLICATION

Mixing ratios are based on the use of freshwater. Water purity will affect bentonite performance. For best results, make-up water should be pre-treated with SODA ASH to a pH of 8.5-9.5. Add VOLCLAY 180 slowly through a jet/hopper mixer.

DRILLING FLUID MIXING RATIOS	
Condition	(kg/1000 L)
Regular Freshwater Mud	05 - 15 kg
Normal Drilling Conditions	15 - 30 kg
In Gravel or Caving Formations	30 - 45 kg
To Control Seepage Losses	40 - 55 kg
SLURRY PROPERTIES	
Property	Typical Value
Approximate Barrel Yield	190 bbl
Apparent Viscosity (cp)	18
YP/PV Ratio (lb/100 ft <sup>2</sup> )	<3
Filtrate Loss (ml)	14
pH	>8
GENERAL PROPERTIES	
Property	Typical Value
Bulk Density	~0.9 mt/m <sup>3</sup>
Grit % (<200#/<75 micron)	<2.5
Dry Particle Size	65% Min passing #0.076 mm

### PACKAGING

25 kg bag and 1.2 tonne bulka bags

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UPDATED: JANUARY 2020

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