

# 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 contains polymer additives.

### 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 fresh-water. 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. VOLCLAY® 180 slowly through a jet/hopper mixer.

### PACKAGING

25 kg multi-wall paper bags and 1.2 ton Bulk Bags.

DRILLING FLUID MIXING RATIOS -	
CONDITION	(KG/M³) OF VOLCLAY® 180
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	180bbl
Gel Strength 10 sec	10
Gel Strength 10 min	15
Apparent Viscosity (cp)	15
YP/PV Ratio (lb/100ft²)	<3
Filtrate Loss (ml)	18
pH	>8
GENERAL PROPERTIES	
PROPERTY	TYPICAL VALUE
CEC (meq/100g)	>75
Bulk Density	Approx. 0.9mt/m³
Grit % (200# / < 75 micron)	<3
Dry Particle Size	65% Min passing #0.076mm

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