

PREMIUM GEL[®] R/TERRAGEL

PARTIALLY ACTIVATED DRILLING BENTONITE

DESCRIPTION

PREMIUM GEL[®] R is a finely ground Wyoming-type bentonite. It is conception of carefully selected minerals modified with polymers which allows for drilling fluid to be obtained with relatively low viscosity; retaining very high removes cuttings parameters.

It is characterised by a flat flow curve and high values in terms of low shear rates.

Thanks to its composition PREMIUM GEL[®] R is the best technical solution when using recycling unit (shale shakers and hydrocyclones).

APPLICATION

The bentonite is particularly useful when working on very long vertical and horizontal sections during vertical and directional drilling. It can also be used when microtunnelling, tunnelling, in addition to all fresh water-based drilling.

BENEFITS

- Stabilises boreholes.
- Removes cuttings very efficiently.
- Works perfectly in environment of calcium ions
- Provides high CCI at low annular velocities.
- Reduces the fluid loss.
- Provides cement slurry stability.
- Easy to clean in recycling unit.
- Reduce torque and drag.
- Generates lower pressure in boreholes in comparison to similar products on the market.

TYPICAL PARAMETERS

Typical parameters for tap water: 5% slurry on OFI 900, Hamilton Beach mixer 11000 rpm, 10 min mixing time.

MIXING

Mixing ratios are based 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. PREMIUM GEL[®] R should be added slowly through a jet/hopper mixer.

Recommended PREMIUM GEL[®] R mixing ratio:

	kg/m ³
Normal conditions	37–45 kg
Sand and gravel	45–50 kg
Clay and claystone	36–38 kg

PACKAGING

Paper bags with film: 25 kg.
40 bags on a single-use wooden pallet.
All pallets are plastic-wrapped.
Big bag: 1 t and 650 kg.

TECHNICAL SPECIFICATION

PV (PLASTIC VISCOSITY) [mPas]	LSYP [lbs/100 sqft]	0,1 [mPas]	0,036 [mPas]	3/600	FL
< 15	> 28	> 28 000	> 65 000	> 0.48	< 17 ml