

Technical data sheet

Product Name: Pileman®

General description: Pileman® is high yield sodium activated bentonite. It is superbly adaptable to requirement of conventional Bored Piling, Diaphragm Walling and similar technologies. Having a yield of 110 bbl/sht, this product is designed to hold the soil well and result in minimal wall collapse. Also used as non-polymer based face slurry support in TBM

Product features:

- Produces thixotropic Gel
- The slurry is designed to deposit thin low permeability filter cake, ensuring low fluid loss
- Cools as well as lubricates drilling bit
- Properly calibrated to work with Easy-Bore™ (polymer gel)

Mixing procedure: Simply mix 60 kg of Pileman® in 1000 ltr. fresh water and the slurry will be ready to use after 20 minutes of mixing, giving a marsh viscosity 40" or more.

Technical specification:

Moisture	%(by wt.)	12-13 max
Swelling volume	MI	29 -31 min
Loose bulk density	gm/cc	0.75-0.85
pH		9 -10
Particle size(residue at #200mesh)	%(by wt.)	15 max
Sand Content (wet sieve analysis,API)	%(by wt)	<1.5%

Rheological characteristic:

Pileman® concentration	g/l	60
Marsh viscosity after 30 min	Second	40 min.
Gel strength(10>)	Pa	5 min.
API Filtrate (30 min. under 7kg/cm ²)	MI	20 max

Note: -

The chemical composition of the Bentonite to be determined on indicative basis since the chemistry varies from one mining site to other. The technical specifications as specified above will however have no variation.