

Technical Data Sheet

Easy-Bore™

PHPA Powder

General Description:

Easy-Bore™ powder a co-polymer of anionic character having medium to high molecular weight. A dry polymer which is primarily used as an efficient drilling fluid, viscosifier and also act as fluid loss reducer when used with bentonite. It is compatible with most of the drilling fluid products, biopolymers, PAC, CMC etc. It maintains hole stability by preventing shale swelling and erosion.

Product Features and Advantages:

- Functions as an inhibitor by coating or encapsulating formation & cuttings on shale and reactive clays
- Prevents Bit balling.
- Can be used as a flocculent in clear water drilling.
- It is well suited for Low solid mud as a extender to increase the viscosity with minimum solid content.
- The minimum solid mud can be formulated to maximize the rate of Penetration.
- Provides good hole cleaning capability.
- Reduces drill torque.
- Reduces skin friction and overall tunnel pressure during microtunnelling.
- Excellent for use in friction pile foundation, where the use of Bentonite is restricted.

Physical Properties	
Parameter	Results
Appearance	White free flowing powder
Solubility in water (at 25 degC)	Easily soluble
pH(5g/l)	7-7.2
Ionic Character	Anionic
Anionicity	30%-35%
UL Viscosity(cps)	4-7

Typical Rheology in Demineralised water:

EB powder@2.85kg/m ³		
Fann Reading		
at 600	rpm	33
at 300	rpm	27
at 200	rpm	23
at 100	rpm	18
at 6	rpm	8
at 3	rpm	7
apparent viscosity	mPas	16.5
plastic viscosity	mPas	6
Yield point	lb/100 sq"	21

Remarks: The makeup water should be free from excess Chlorides and Carbonates, which otherwise affect the performance of the polymer. Recommended level, total hardness and total Chloride to be < 150ppm. Soda ash light should be used in small proportion to bring down the hardness level.

Shelf life: 1 year from the date of manufacturing, subject to storage in dry place and protected from any kind of moisture.



Bentonite | Polymer | Polymer-Clay Nanocomposites | Surfactant

Amrfeo pte. ltd.

the future of bentonite™

32A, Chittaranjan Avenue, Calcutta 700012, India
Email : amrfeo@amrfeo.com
Certified bentonite producer by 'Saudi Arabian Standard Organisation'

HIGH YIELD BENTONITE | SEAWATER BENTONITE | SLURRY WALLS | PILING | D- WALLING |
BOREHOLE SEALING | HDD MICROTUNNELING | FOUNDRY | IRON -ORE PALLETISING |
ANIMAL FEED | DETERGENT | COSMETICS | SURFACTANT | PHPA | FLOCCULANT