

## 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.

| 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                       |

### 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 micro tunnelling.

### Typical Rheology in Demineralised Water @ 3kg/m<sup>3</sup> dosage. Root mixer 1500 rpm, 5 minute

**Marsh Viscosity > 200"**  
**Fann Reading @ 600 RPM - 30 min**

**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



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ISO 9001 : 2015 Quality System

Corporate & Marketing Office :

32A,Chittaranjan Avenue, Calcutta 700012, India

Ph: +91 33 4007 2855 | Mobile: +91 9831013136

Fax: +91 33 2212 2040

Email: [amrfeo@amrfeo.com](mailto:amrfeo@amrfeo.com) or [amrfeo@gmail.com](mailto:amrfeo@gmail.com)

Web : [www.amrfeo.com](http://www.amrfeo.com)

Bentonite Processing plant :

Survey no: 583/1 plot 2-6, Bhuj Bacaho Road

Kutch – Gujarat , India