



Technical Datasheet

OBM PRIMARY EMULSIFIER

Description

OBM Primary Emulsifier is a high-quality grade of emulsification agents for oil-based drilling fluids. OBM Primary Emulsifier is widely used in different mud densities and oil/water ratios in order to increase emulsification between water and oil phases, increase temperature stability and viscosity, minimize filtration and help to forming thin filter-cake in wellbore surface.

Application

Main function of OBM Primary Emulsifier is increasing emulsification quality and oil-wetting the drilling solids. It also lowers filtration properties in oil-based muds. It can be used in workover and completion operations as well as drilling.

Advantages

- Wetting the drill solids with oil phase
- Increase emulsion stability characteristic
- provides excellent filtration characteristics in HPHT environments
- Compatible with most types of regular oil-based muds
- Easy to mix
- Stable up to 300°F
- Forming high quality filter cake on wellbore walls
- Improve thermal stability
- Improve contamination-resistance of the mud
- Provide viscosity

Limitations

- Contains mineral oil which is an irritant to eyes, skin and respiratory system.

Treatment

Depending on the required properties for Oil-based mud, normal concentrations for OBM Primary Emulsifier ranges from 6 to 12 lb/bbl (16.8 – 33.6 Kg/M³) in oil-based muds. It should be added slowly through rig hoppers. Treatments must be performed on an incremental basis to prevent any overtreatment and cost increment.

Typical Properties

Appearance	Silver/Brown/black/grey Flakes and Granules
Specific Gravity	0.8-1
Flash Point (°C)	80-120
Solubility	Insoluble in water – Soluble in Oil

Packaging

OBM Primary Emulsifier is available in 55-Gal Drum.