

## KINGXIANG® P Primary Emulsifier

### Product Description

A stable emulsification system is crucial for maintaining the excellent performance of oil-based drilling fluids. Inadequate emulsification can lead to oil-water separation, reduced electrical stability, and fluctuating rheological properties, potentially compromising wellbore stability and drilling efficiency. Therefore, selecting a high-performance emulsifier is a key step in formulating a high-quality oil-based drilling fluid system.

This primary emulsifier is a high-efficiency product specifically developed for water-in-oil (invert emulsion) drilling fluid systems. It rapidly forms a stable, uniform emulsion, enhances the fluid's electrical stability (ES) and emulsion stability, effectively minimizes free water separation, and improves performance under high-temperature, high-pressure, and complex formation conditions.

### Applications/Features

- Establishes a stable water-in-oil emulsion system;
- Enhances the high-temperature stability of the drilling fluid;
- Reduces free water separation;
- Improves the rheological properties of the drilling fluid;
- Compatible with organophilic bentonite, co-emulsifiers, and other products;
- Suitable for a wide range of oil-based and synthetic-based drilling fluid systems.

### Technical Indicators

- Appearance: Dark-colored liquid
- Highly concentrated product; low dosage required
- Thermal stability up to 180°C
- Flash point: >93°C
- Pour point: <10°C
- Specific gravity: 0.93

