



# Technical Data Sheet

## IN FORCE P

### *Product Description*

**IN FORCE P** is a primary emulsifier for Oil Based fluid systems. It is designed to produce a highly stable invert emulsion, improve the electrical stability and fluid loss properties. **IN FORCE P** is effective over a wide range of different oil/water ratios and mud weights. The water phase should preferably be a calcium chloride brine.

**Applications:** Primary emulsification; improve electrical stability; and filtration control

**Treatments:** Typical concentrations range from 1 to 8 lb/bbl depending on the oil/water ratio.

Daily maintenance treatment are required. Pilot testing is suggested to determine the actual treatment required to obtain the desired properties.

**Temperature:** **IN FORCE P** has a static bottom hole temperature window up to 350°F. This value is based upon normal drill solids content and target product concentrations. As the solids content increases, this will cause strain on the products ability to perform. Also, as laterals are lengthened and mechanical stresses are increased, this will have negative impacts on stability of emulsifiers.

### KEY BENEFITS

- Emulsion stability
- Filtration control
- Improves wettability

#### Key Properties

|                     |             |
|---------------------|-------------|
| Color               | Dark        |
| Physical Form       | Liquid      |
| Sg                  | 0.92 -.0.98 |
| Solubility in water | Insoluble   |
| Packaging           | Drum/Totes  |