



Technical Data Sheet

IN FORCE XRP

Product Description

IN FORCE XRP is a gellant that provides elevated yield point and gel strengths with minimal increase in plastic viscosity for all oil-base and synthetic based mud systems. It is frequently used to increase the hole-cleaning capacity for sweeps in directional or horizontal wells and for gelling freshly prepared muds being transported to the well. IN FORCE XRP is a versatile additive which works in conjunction with organophilic clay and can be used to minimize the amount of clay in a particular formulation. Time and shear or chemical treatments can be used to later thin a fluid treated with IN FORCE XRP. The product increases low-shear-rate viscosity (LSRV) to improve shear thinning and thixotropic characteristics.

Applications: IN FORCE XRP can be utilized to provide suspension in freshly prepared fluids under conditions where insufficient shear and temperature at the mixing plant do not allow the other viscosifiers in the formulation to yield. It will provide a satisfactory yield point and gel structure to support weight material with a minimal concentration of organophilic clay such as VG-69. This prevents excessive amounts of organophilic clay from being used which could lead to undesirable high viscosities once the mud is displaced into the well.

Treatments: The recommended treatment for the initial makeup of new fluids is 1 to 4 lb/bbl (2.85 to 11.4 kg/m³) of IN FORCE XRP in combination with 4 to 12 lb/bbl (11.4 to 34.2 kg/m³) of organophilic clay, depending on the desired rheology. IN FORCE XRP works with organophilic clay to develop viscosity. This viscosity will diminish with high shear and time, so treatments will be needed on a regular basis.

KEY BENEFITS

- Increased gel structures providing a thixotropic fluid.
- Enhances the performance of organophilic clays for desired viscosity.
- Lowers HTHP fluid loss.

Key Properties

Color	Straw-colored
Physical Form	Liquid
Sg	1.01
Flash Point	>200°F (93°C) (PMCC)