



Drilling Fluids, Inc.

OMNIPOL II

DESCRIPTION

OMNIPOL II is an anionic synthetic Polyacrylate copolymer used as a thinner deflocculant for water-base drilling fluids whose chloride levels do not exceed 10,000 mg/l or hardness levels do not exceed 500 ppm.

USES

OMNIPOL II is used to control the rheological properties of water-base drilling fluids. **OMNIPOL II** also aids in preventing high-temperature mud gelation. Being readily water soluble, **OMNIPOL II** can be added directly into an agitated mud pit.

BENEFITS

OMNIPOL II is very cost effective in controlling viscosity and gel strengths in freshwater drilling fluids. **OMNIPOL II** contains no chrome or other heavy metals. **OMNIPOL II** is effective over a broad pH range. **OMNIPOL II** requires no CAUSTIC SODA for activation and is readily water-soluble. In high concentrations **OMNIPOL II** and DMA work together to provide rheological stability to greater than 4000 F.

TREATMENT

OMNIPOL II is normally used in concentrations of 0.1 to 0.5 ppb but may be used at 2 ppb or more for high temperature stabilization. The treatment level is determined by the total solids content of the drilling fluid, particle size, chloride levels, hardness level, previous additions of **OMNIPOL II** and the bottom-hole temperature.

FUNCTION

OMNIPOL II controls rheology through two mechanisms. First, the short chain co-polymer is attracted to the charged solids and satisfies their charge. This reduces their interaction. Secondly, excess polymer remains in the water repelling solids from each other. Because of its relatively large size [molecular weight in excess of 50,000u.] the molecules remain outside the clay matrix. This prevents dispersion of the clays as occurs with dispersant thinners such as DESCO, Lignite, and Lignosulfonate.

TYPICAL PHYSICAL PROPERTIES

Appearance..... pale, straw-colored liquid
Activity.....45% by weight
Flash point [ASTM D56].....>200°F [93°C]
Specific gravity.....1.25 to 1.30

SAFE HANDLING RECOMMENDATIONS

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet [MSDS] for this product prior to use.

PACKAGING

OMNIPOL II is packaged in 5 gal non-returnable plastic pails, or 220- 330 gallon returnable totes.

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