DRILLING FLUID PRODUCTS

TECHNICAL INFORMATION

IM-GEL™35

PARTIALLY HYDROLYZED PHPA CO-POLYMER

High temperature Fluid Loss Additive and Rheology Modifier Aid for Water Based Drilling Fluids

IM-GEL™35 is a liquid emulsion of acrylic co-polymers designed to improve performance of all types water based mud systems (WBM). **IM-GEL 35** imparts shale and bore-hole stability, viscosity modification, lubricity, selective flocculation and assists with fluid loss control. **IM- GEL 35** provides a cost effective means of controlling drilling fluid characteristics and improving performance in a wide variety of fluid environments.

Product Specifications:

Property	Specification
Ionic Nature	Anionic
Specific Gravity (at 25°C)	1.0 – 1.04
pH (1% solution)	7.5 – 8.5
Viscosity (cPs)	1200 - 1800
Appearance	Opaque viscous fluid

Applicable Fluid Types:

IM-GEL 35 is applicable in the following general types of fluid systems

- Freshwater mud
- Seawater and saltwater mud (up to and including saturation)
- KCl mud
- Solids free brine (NaCl, KCl and $CaCl_2$)
- Muds with divalent ions

Functions:

IM-GEL 35 has the following benefits in the above mud systems:

- Provides effective control and modification of important drilling fluid properties with immediate effect and with low toxicity.
- Enhances the removal of drilled solids and improves penetration rates by reducing friction characteristics of the treated drilling fluid.
- Excellent foam stabilizers for air drilling, while improving carrying capacity.
- Improve the character and consistency of wall cake, thereby reducing the potential for stuck pipe.

Recommended Treatment:

Concentrations in the range of 1.5 – 5 litres/m^3 are recommended. The quantity used would be dependent on the drilling fluid system, drilling depth and equipment.

It is recommended to pre-mix bentonite prior to adding **IM-GEL 35**. Keep mud density below pH 11.

Packaging:

Packaged in 25 and 208 liter HDPE drums.

Legislation and Handling Recommendations:

Not restricted by any regulatory agency. Refer to the Material Safety Data Sheet (MSDS) for the product prior to use.

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