

# Reacap

REACAP is a partially hydrolyzed high molecular weight polyacrylamide, designed to prevent dispersion of cuttings due to encapsulation of clay particles. Additionally, the reagent can be used as a solution thickener, flocculant, fluid loss reducer and increase the lubricity of drilling fluids. The reagent can be used in various types of drilling fluids, including low clay, heavy and brine

## Typical Physical Properties

Physical appearance .....	Cream color powder
Odor.....	odorless
Specific gravity .....	1.07-1.10 SG
pH (1% solution) .....	7-8

## Applications

REACAP is an encapsulating reagent specially selected for use in OPTIMA system.

The combined use of REACAP and REASTAB reagents in the OPTIMA system allows obtaining optimal properties of the drilling fluid.

REACAP reagent has exceptional encapsulating properties, providing high resistance of drilling fluids to operating time when drilling in active clays and stability of the borehole walls. Optimal concentration of REACAP reagent for drilling conditions can vary from 0.5 to 7 kg / m3.

In potassium chloride and other inhibited systems, REACAP is used as an encapsulator, in low-clay systems as a thickener and to increase bentonite yield. REACAP reagent can also be used to prepare viscous pills, pumped to clean the wellbore.

REACAP can be added directly into the active system via a hopper or by mixing concentrated polymer solution in a separate container for subsequent dilution. The most effective introduction of an aqueous polymer solution in a thin stream into the active container during circulation. The simultaneous addition of REACAP reagent to the drilling fluid, together with caustic soda, lime and organic breakers, should be avoided.

## Advantages

- Provides a high level of encapsulation of cuttings
- Provides high stability of the borehole walls
- Increases the efficiency of equipment for cleaning solution
- Eliminates gland formation and slugging of the bit
- Improves the lubricity of the drilling fluid

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## Limitations

- Typically, with the initial addition of polyacrylamide group reagents, intensive flocculation and thickening of the fluid. This phenomenon is known as the "viscous hump", as the concentration of the reagent increases and complete encapsulation active solid phase, the viscosity of the solution will gradually decrease to normal. To avoid excessive viscosity increase, REACAP reagent is to be added to the fluid with MBT less than 45 kg/m<sup>3</sup>
- Reagent efficiency reduces when total hardness is exceeding 300 mg/l
- Optimal pH for REACAP is 7.5-8.5, higher pH can result in hydrolysis of PHPA

## Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

## Packaging and Storage

REACAP reagent is supplied in 20 and 25 kg multilayer paper bags. Store in a dry, well-ventilated place, only in sealed original packaging. Keep away from sources of heat, sparks and flames, to prevent the formation of dust.

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