

# Tackle

TACKLE\* liquid polymer is a low-molecular-weight, anionic thinner designed to deflocculate a wide range of water-base drilling fluids. This concentrated aqueous product has proven itself in applications from the surface to total depth. While it is frequently used as a shallowhole thinner to knock the “fluff” out of spud mud, it also maintains effective performance in more complex systems. This synthetic additive has a high temperature limit and is not subject to bacterial degradation.

### Typical Physical Properties

Physical appearance ..... Amber to brown liquid  
 Specific gravity ..... 1.2-1.3  
 Flash point ..... >212° F (>99° C) (PMCC)

### Applications

TACKLE liquid polymer is an effective additive for reducing and stabilizing viscosity in a wide range of systems. It is most effective in freshwater fluids that are low in soluble calcium. TACKLE polymer is used most often in high-temperature applications and in low-solids, non-dispersed, polymer muds such as the POLY-PLUS\* system. Normal treatments range from 0.1 to 2 lb/bbl.

### Advantages

An effective deflocculant in freshwater, KCl and seawater fluids:

- Thermally stable to >400° F (>204° C)
- Not subject to bacterial degradation
- Effective in weighted or unweighted fluids and compatible with both non-dispersed and dispersed systems
- Works well as a deflocculant in POLY-PLUS polymer mud systems
- Compatible with most common mud additives
- A concentrated liquid thinner, easily added to the mud system through the mud hopper or directly into the surface system

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## Limitations

Highly anionic additive precipitated by high concentrations of divalent cations such as calcium and magnesium. Total hardness must be maintained below 200 mg/L with soda ash.

- Should not be used in calcium systems such as lime, gyp or untreated seawater muds that have high soluble calcium
- Effectiveness is limited in high-solids mud
- Initial treatments with TACKLE additive can actually increase viscosity when the concentration is very low, ~0.1 lb/bbl. Dilution to reduce the solids, in conjunction with continued treatments with TACKLE additive, reduces viscosity
- Pilot tests are recommended prior to treating with this product

## Toxicity and handling requirements

Bioassay information is available upon request.

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

## Packaging and storage

TACKLE liquid polymer is packaged in 5-gal (18.9-L) cans.

Store in a well-ventilated area away from sources of heat or ignition.

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