

# Drilling Fluids - Foam & Detergents

## Detergent Plus



Product Number: 9410011

## Applications

Detergent Plus can be used in almost any water base drilling fluid. It is used primarily in surface and intermediate sections during drilling to minimize bit and BHA balling and mud rings.

Detergent Plus reduces torque and drag. Treatments range from 0.1 to 0.2 lb/bbl (0.29 to 0.57 kg/m<sup>3</sup>) under normal drilling conditions. In severe gumbo shale areas, 4 to 6 lb/bbl (11.4 to 17.1 kg/m<sup>3</sup>) of DETERGENT PLUS are recommended to minimize bit and BHA balling. It is effective in all water base systems including freshwater, brackish water, seawater and saturated saltwater fluids.

## Advantages

- Minimizes bit and BHA balling
- Improves water-wetting action on all solids and reduces the sticking tendency of reactive shale cuttings
- Functions as an emulsifier, reducing the viscosity of oil-contaminated fluids

DETERGENT PLUS drilling detergent is a liquid blend of specialty surfactants designed to reduce the surface tension of water base mud systems and reduce the sticking tendency of reactive shale and clays.

## Method of Addition

Detergent Plus can be added as recommended to the active system or directly in the drill pipe at connections.

## Typical Physical Properties

|                     |             |
|---------------------|-------------|
| Physical Appearance | Pink Liquid |
| pH                  | 7.5 to 8.5  |
| Solubility          | 100%        |
| Specific Gravity    | 1.0-1.02    |
| Freezing Point      | 32°F/0°C    |

## Packaging and Storage

Detergent Plus is supplied in 5 gal/18.9 L pails.

