



## Technical Datasheet

# DRILLING DETERGENT

### Description

Drilling Detergent is a high-performance material which is designed for cleaning downhole and surface tools. Drilling Detergent is a blend of surfactants which can minimize surface tension. Drilling Detergent can be used to remove sticky clays on the surface of BHA tools.

### Application

Main function of Drilling Detergent is for cleaning downhole and surface tools. Drilling Detergent pill is an excellent choice for removing of mud residue and filter cake prior to cement pumping. It is highly recommended for removing bit balling with mechanism of reducing surface tension of sticky clay particles.

### Advantages

- Easy to mix through hopper
- Effective in low concentration
- Compatible with sea water
- Minimize possibility of bit balling on stabilizers

### Limitations

- May cause some foaming issues in case of over-treat
- It may has unwanted effects on rheological characteristics when added to the active circulating system, and it is better to be used as pills.

### Treatment

In case of bit balling or requirement to clean downhole tools from mud debris, 50 to 150 barrels of Drilling Detergent solution can be applied by mixing 1-2% vol/vol of Drilling Detergent in mud or water. It is needed to soak the Drilling Detergent pill in downhole for at least 20 minutes hours. While soaking, applying drill pipe rotation is advised. It is highly recommended to perform the pilot tests at rig site before actual mixing, in order to prevent overtreatment and sever foaming.

### Typical Properties

Appearance	Yellow Liquid
Specific Gravity (in 77 °f)	1-1.1
Water Compatibility	Soluble
pH (10% solution)	>9
Flash Point	>65 °C

### Packaging

Drilling Detergent is available in 55-Gal Drums.