

# Penetrol

## Category: Drilling fluids

### Wetting Agent

PENETROL, a water miscible, non-ionic wetting agent, is designed to counteract the sticking tendencies of clay.

### Applications/Functions

- Reduce or eliminate bit balling
- Reduce surface tension of drilling fluid, which allows faster chip removal without continuously grinding the hard shale formations
- Improve drilling efficiency by preferentially coating the bottom-hole assembly and drill string
- Minimize differential sticking
- Increase bit life and reduce drill pipe and bottom-hole assembly wear

### Advantages

- Easy to mix
- Effective in low concentrations
- Compatible with other Baroid drilling fluid additives
- Biodegradable
- NSF/ANSI Standard 60 certified

### Recommended Treatment

#### Added uniformly through entire circulation system

- 1 to 4 quarts of PENETROL per 100 gallons of drilling fluid
- 2.5 to 10 liters of PENETROL per m<sup>3</sup> of drilling fluid

#### As a slug down drill rods to counteract the sticking tendencies of clay

- 1 to 2 quarts of PENETROL per drill rod
- 1 to 2 liters of PENETROL per drill rod

### Alternate Application

- Dilute 1 gallon of PENETROL with 10 gallons of water and inject one gallon of mixture per minute into the pump suction
- Dilute 3.8 liters of PENETROL with 38 liters of water and inject 3.8 liters of mixture per minute into the pump suction



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