



PENETROL®

Wetting Agent

Description 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
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- Advantages**
- Easy to mix
 - Effective in low concentrations
 - Compatible with other Baroid drilling fluid additives
 - Biodegradable
 - NSF/ANSI Standard 60 certified
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- Typical Properties**
- Appearance forest green liquid
 - Specific gravity 0.98
 - pH (1%) solution 9.5
 - Flash point, TOC, °F, °C >300, (149)
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- 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 m³ 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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Packaging PENETROL® is packaged in 5-gal (19-liter) plastic containers.

Availability PENETROL can be purchased through any Baroid Industrial Drilling Products Distributor. To locate the Baroid IDP distributor nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

Baroid Industrial Drilling Products

Product Service Line, Halliburton

3000 N. Sam Houston Pkwy. E.

Houston, TX 77032

Customer Service (800) 735-6075 Toll Free (281) 871-4612

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