NEW-DRILL
Improves shale stability and viscosity and reduce friction in water-based drilling fluids

Applications
• Horizontal directional drilling
• Minerals mining
• Water wells
• Blast holes
• Environmentally sensitive areas
• Shaft drilling
• Foam drilling

Features and benefits
• Limits reactivity of the drilling fluid to the exposed formation
  - Provides excellent borehole stability
• Nonfermenting additive
  - Decreases costs by longer shelf life
• Reduces dispersion of drill cuttings and flocculants at a low dosage
  - Improves performance of solids control equipment
• Builds a protective lubricating film on water-wet solids
  - Increases drilling fluid filtration control properties
• Nontoxic
  - Works safely in environmentally sensitive areas

The Baker Hughes NEW-DRILL™ shale stabilizer is a liquid emulsion polymer designed to provide shale stability, friction reduction, and viscosity in water-based drilling fluids. The NEW DRILL stabilizer is comprised of a high-molecular weight, partially hydrolyzed polyacrylamide (PHPA) dispersed in a mineral oil.

Recommended treatment
The NEW-DRILL stabilizer’s usual treatments are 0.05 to 0.50 gal/100 gal (0.02 to 0.22 gal/bbl) or 0.48 to 5.24 L/m³ in freshwater- or saltwater-based fluids. The NEW-DRILL stabilizer can be added to the circulating system using the mud hopper or directly to the mud pit. The stabilizer can also be added in small concentrations at the flowline to facilitate settling of drilled cuttings. For lubricity, the NEW-DRILL stabilizer can be added periodically at drillpipe connections.

Environmental information
For information concerning environmental regulations applicable to this product, contact the Health, Safety, and Environmental department of Baker Hughes.

Shipping
Transportation of the NEW-DRILL additive is not restricted by either international or United States regulatory agencies.

Safe handling recommendations
Use normal precautions for employee protection when handling chemical products. See Safety Data Sheet (SDS) prior to use.

Packaging
The NEW-DRILL shale stabilizer is packaged in 5-gal (18.9-L) pails.

Typical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Opaque liquid</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.0 to 1.10</td>
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<tr>
<td>Temperature stability</td>
<td>Up to 300°F (149°C)</td>
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