

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 drill pipe 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

Appearance	Opaque liquid
Specific gravity	1.0 to 1.10
Temperature stability	Up to 300°F (149°C)