

# LATIRATE

## Reduce friction and vibration in directional and extended-reach wells

### Applications

- Horizontal, deviated, and extended-reach wells

### Features and benefits

- Enhanced lubricity and reduced torque and drag
  - Decreases nonproductive time
  - Enhanced hole cleaning
  - Improves cuttings management, weight-on-bit, and directional control
  - Minimizes bit balling, accretion
  - Reduces bottomhole assembly vibration
- Efficient drilling enhancer chemistry
  - Disperses readily in water-based fluid systems with minimal effect on viscosity
- Effective in low concentrations
  - Minimizes treatment time, costs
  - Reduces inventory requirements
- Low pour point
  - Facilitates use in cold climates
- Works well with **Baker Hughes Talon™ high-efficiency PDC** and **Dynamus™ extended-life drill bits**
  - Gives superior directional control, longer run life, improved ROP, and enhanced durability
  - Drills faster, farther, and longer

The **LATIRATE™ rate of penetration (ROP) enhancer and lubricant** from Baker Hughes reduces friction that causes torque and drag, improving sliding efficiency and penetration rates in directional and extended-reach wells.

Designed for water-based drilling fluids, the LATIRATE additive is easy to use. LATIRATE is completely water dispersible, mixes readily in most drilling fluids, and can be easily applied to the fluid system. LATIRATE works effectively in low concentrations and is temperature-stable with a low pour point of 19.4°F (-7°C).

The LATIRATE additive may be used alone or as one of the three core products that comprise the **Baker Hughes LATIDRILL™ high-performance water-based drilling fluid system**. Because the LATIDRILL system's formulation uses fewer products, field personnel can quickly mix a robust fluid system with an improved rheological profile and easily maintainable, faster stabilizing properties.

### Recommended treatment

For optimum performance, the LATIRATE additive should be used in water-based fluids at an initial concentration of 2 to 4% by volume. It can be added to the mud pit close to the agitator and suction line, or alternatively to the low-pressure side of the mud pump.

### 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 LATIRATE 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

LATIRATE additive is packaged in 55-gal (208.2-L) nonreturnable drums and 275-gal (1041-L) totes.

#### Typical properties

<b>Appearance</b>	Brown liquid
<b>Specific gravity</b>	0.886
<b>Flash point (Closed cup)</b>	190°F (87.8°C)
<b>Pour point</b>	19.4°F (-7°C)