

# MAX-GUARD

## Prevent stuck pipe, bit balling, and nonproductive time

### Applications

- Water-based drilling fluids
- Unconventional wells with temperatures up to 360°F (182°C)

### Features and benefits

- Clay hydration and swelling suppressant
  - Prevents stuck pipe, bit balling, and nonproductive time
- Tolerant to common contaminants such as cement, carbon dioxide, crude oil, and drill solids
  - Reduces dilution rates
  - Improves solids removal efficiency
  - Increases rate of penetration
- Conforms with safe environmental measures

The **MAX-GUARD™ shale stabilizer** from Baker Hughes is the primary hydration and swelling suppressant in the **PERFORMAX™ high-performance water-based drilling fluid system**.

Clay and gumbo inhibitions are achieved by limiting water absorption and providing improved cuttings integrity.

The MAX-GUARD shale stabilizer effectively inhibits reactive clays and gumbo from hydrating and becoming plastic, which provides a secondary benefit of reducing the tendency for bit balling. The MAX-GUARD shale stabilizer can be readily added to the mud system without effecting viscosity or filtration properties.

### Recommended treatment

Typically, MAX-GUARD shale stabilizer concentration ranges from 2 – 4% by volume, but it may vary based on the hole size, rates of penetration, and reactivity of the formation being drilled.

### 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 MAX-GUARD shale stabilizer 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

MAX-GUARD shale stabilizer is available in bulk and packaged in 55-gal (208.2-L) nonreturnable drums.

### Typical properties

<b>Appearance</b>	Amber liquid
<b>Specific gravity</b>	1.07 to 1.09
<b>pH (2% solution)</b>	6.0 to 7.5
<b>Flash point (PMCC)</b>	> 212°F (100°C)