

# GEM™ GPE

## Shale Stabilizer

## Product Data Sheet

### Product Description

GEM™ GPE shale stabilizer is a blend of polyglycols that can be used in water-based drilling fluids to help improve shale stability and lubricity. It is recommended for use in potassium and sodium salt based fluids but can be effectively used in fresh water non-dispersed fluids when low to medium reactive clays and shale are anticipated. GEM GPE shale stabilizer does not exhibit cloud point behavior in any fluids up to 210°F (98°C). GEM GPE shale stabilizer also helps to reduce bit-balling, is compatible with most water-based drilling fluids and is unaffected by contaminants. GEM GPE shale stabilizer is environmentally friendly and suitable for use worldwide including severe arctic conditions.

### Applications / Functions

- Helps stabilize reactive formations
- Helps improve mud lubricity
- Helps reduce bit-balling tendencies
- Decreases freezing point of drilling or completion fluid

### Advantages

- Compatible with most water-based drilling fluids
- Unaffected by contaminants
- Environmentally responsible
- Suitable for use under severe arctic conditions

### Typical Properties

- |                    |                           |
|--------------------|---------------------------|
| • Appearance       | Colorless to brown liquid |
| • Solubility       | Cold Water Soluble        |
| • Specific Gravity | 1.08 to 1.18              |
| • pH               | 6 to 9                    |

### Recommended Treatment

Add 1-6 percent by volume to the mud system

### Packaging

GEM GPE shale stabilizer is available in 55-gal (207-l) drums containing 507-lb (230-kg) net weight.