



TECHNICAL DATA SHEET (TDS)

Shale Inhibitor

Product Name: Shale Inhibitor

Product Type: Water-Based Drilling Fluid Additive

Appearance: Clear to Light Amber Liquid

Application: Water-Based Drilling Fluids (WBM)

Product Description

Basekim **Shale Inhibitor** is a high-performance drilling fluid additive designed to stabilize reactive shale formations and prevent clay hydration during drilling operations. The product effectively minimizes shale swelling, dispersion, wellbore instability, and stuck pipe problems while improving drilling efficiency and reducing non-productive time. It is compatible with most water-based drilling fluid systems and is suitable for conventional, directional, and horizontal drilling applications.

Applications

- Oil & Gas Drilling
- Water-Based Drilling Fluids (WBM)
- Horizontal Drilling
- Directional Drilling
- Deep Well Drilling
- Geothermal Wells
- Reactive Clay and Shale Formations
- Onshore and Offshore Drilling Operations



Key Benefits

- Excellent shale stabilization
- Prevents clay swelling and dispersion
- Improves wellbore stability
- Reduces stuck pipe incidents
- Minimizes torque and drag
- Enhances drilling efficiency
- Compatible with most water-based mud systems
- Helps reduce drilling costs
- Environmentally compatible formulation
- Easy to mix and apply

Typical Properties

Property	Typical Value
Appearance	Clear to Light Amber Liquid
Odor	Mild Characteristic
Physical State	Liquid
pH (25°C)	7.0–10.0
Density (25°C)	1.00–1.10 g/cm ³
Solubility	Completely Soluble in Water
Flash Point	Not Applicable (Water-Based)
Viscosity	Low to Medium

Typical values are for guidance only and should not be considered product specifications.

Performance Characteristics

- Strong clay inhibition
- Reduces shale hydration
- Controls shale dispersion
- Improves borehole integrity
- Reduces bit balling



- Lowers drilling fluid maintenance costs
- Improves cuttings integrity
- Excellent compatibility with drilling fluid additives
- Suitable for high-performance drilling fluids

Recommended Dosage

Recommended dosage depends on drilling conditions and shale reactivity.

Typical treatment range:

0.5–5.0% by volume of the active drilling fluid system.

Laboratory compatibility testing is recommended to determine the optimum concentration for each application.

Application

Add directly into the active mud system through the mixing hopper or circulation system.

Maintain continuous agitation during addition to ensure uniform dispersion.

For optimum performance, monitor drilling fluid properties regularly and adjust dosage as required.

Storage

Store in the original tightly closed container.

Recommended storage temperature:

5°C to 35°C

Protect from:

- Freezing



- Direct sunlight
- Excessive heat
- Contamination

Shelf Life

12 months from the date of manufacture when stored in unopened original containers under recommended storage conditions.

Packaging

Available in:

- 25 kg Plastic Drum
- 200 kg HDPE Drum
- 1,000 kg IBC Tank
- Bulk Tanker Supply (Available Upon Request)

Packaging options may vary depending on customer requirements.

Handling

Use appropriate industrial hygiene practices.

Wear suitable protective gloves and safety glasses during handling.

Avoid unnecessary contact with eyes and skin.

Refer to the latest Safety Data Sheet (SDS) before use.



Quality Assurance

Each production batch is manufactured under strict quality-control procedures to ensure consistent product quality, reliable drilling performance, and compliance with customer specifications.