



NATURAL GRAPHITE – DRILLING GRADE

Solid Lubricant, Bridging & Lost Circulation Additive

Manufactured & Supplied by BASEKIM

PRODUCT DESCRIPTION

BASEKIM Natural Graphite – Drilling Grade is a processed natural graphite designed for drilling fluid applications. It provides effective solid lubrication and helps reduce torque, drag and differential sticking.

Its controlled particle size provides effective bridging and sealing of permeable formations and micro-fractures, helping control seepage and lost circulation.

Suitable for **Water Based (WBM)**, **Oil Based (OBM)** and **Synthetic Based (SBM)** drilling fluid systems.

KEY BENEFITS

- Reduces torque and drag
- Improves drilling fluid lubricity
- Helps prevent differential sticking
- Bridges micro-fractures and permeable formations
- Helps control seepage and partial fluid losses
- Supports wellbore stability
- Chemically inert and water insoluble
- Compatible with common drilling fluid additives

TECHNICAL SPECIFICATIONS

Property	Specification
Product Type	Natural Graphite
Appearance	Black Powder
Carbon (LOI)	85 – 90%
Ash Content	10 – 15%
Moisture	1 – 2%
Specific Gravity	Approx. 2.1 – 2.3
Water Solubility	Insoluble



Typical Laboratory Analysis

Parameter	Typical Value
Carbon (LOI)	87.8%
Ash Content	12.2%
Moisture	1 – 2%

AVAILABLE GRADES & PARTICLE SIZE DISTRIBUTION

BASEKIM Natural Graphite – Drilling Grade is available in **Fine** and **Medium-1** grades.

Particle Size	Fine	Medium-1
300 Micron	0.00%	0.94%
250 Micron	0.15%	3.43%
150 Micron	1.35%	8.12%
75 Micron	8.95%	17.04%

Fine Grade: Primarily recommended for lubricity, micro-fracture sealing and fine bridging.

Medium-1 Grade: Recommended for bridging, seepage-loss control and lost-circulation applications.

Grade selection should be based on formation characteristics, loss severity and drilling-fluid requirements.

DRILLING APPLICATIONS

Recommended for:

- Oil & Gas Drilling
- Vertical, Directional & Horizontal Wells
- Water-Based, Oil-Based & Synthetic-Based Mud Systems
- Torque & Drag Reduction
- Differential Sticking Prevention
- Wellbore Strengthening
- Seepage & Lost Circulation Control
- LCM Treatments and Spotting Pills

RECOMMENDED TREATMENT

Application	Typical Treatment
Lubricity / Torque & Drag Reduction	5 – 10 lb/bbl (14 – 29 kg/m ³)
Partial & Seepage Losses	15 – 25 lb/bbl (43 – 71 kg/m ³)
Spotting Pill / Severe Losses	60 – 90 lb/bbl (171 – 257 kg/m ³)



Treatment concentration and grade selection should be adjusted according to actual well conditions, formation characteristics and drilling-fluid design.

COMPATIBILITY

Generally compatible with common drilling fluid additives including **Bentonite, Barite, Calcium Carbonate, PAC, CMC, Xanthan Gum, Lignite, Gilsonite, Sulphonated Asphalt, Mica and conventional LCM materials.**

Laboratory compatibility testing is recommended for specialized drilling-fluid systems.

MIXING & HANDLING

Add gradually through the mixing hopper while maintaining adequate circulation and agitation.

Select **Fine or Medium-1** grade according to the required lubricity, bridging performance and formation characteristics.

PACKAGING

25 kg Multi Wall Kraft Paper Bags

Other packaging options may be available upon request.

STORAGE

Store in a cool, dry and well-ventilated area. Keep packaging closed and protected from moisture and contamination.

BASEKIM

Manufacturer & Global Supplier of Oilfield & Industrial Chemicals

Product: Natural Graphite – Drilling Grade

Available Grades: Fine / Medium-1