



KOPR-KOTE® WATERWELL DRILL ROD COMPOUND

DESCRIPTION

KOPR-KOTE® WATERWELL DRILL ROD compound is the premier waterwell and HDD drilling compound in the market and has been for more than 3 decades. It is an unleaded compound containing copper flake, graphite, and other natural extreme pressure and anti-wear additives.

KOPR-KOTE® WATERWELL's solids package is formulated to prevent excessive circumferential makeup by increasing the coefficient of friction under compressive forces. As stress levels rise above 50% of yield, the friction factor increases, limiting downhole makeup. Full hydraulic joint efficiency is maintained allowing joint shoulder faces to mate completely without standoff or deformation.

KOPR-KOTE® WATERWELL offers the greatest protection in the most severe drilling situations such as higher speeds, higher penetration rates, long horizontal holes, or harder formations. For these applications the drill rods and other rotary shouldered connections should be made up an additional 10%. Friction factors for **JET-LUBE® KOPR-KOTE WATERWELL** were developed using full scale API tool joint connections.

For invert or high-pH muds, use **Jet-Lube® WATERWELL 21** or **EXTREME™**.

- **Not classified as a marine pollutant - DOT Approval CA2004080025**
- Contains no lead or zinc.
- NSF H2 Registered (No. 120923)
- Extreme-pressure additives provide additional protection against seizing and galling and allow consistent make-up.
- Aluminum-complex grease base protects against rust and corrosion.
- Sticks to wet joints.
- Unequaled resistance to makeup down-hole.
- Available in Arctic, Thermal, and Specialty grades.
- Approved by NAM/Shell for under-balanced drilling applications.
- Conforms to assembly bill 1953

SERVICE RATING:
0°F (-18°C) TO 450° (232°C)

PRODUCT CHARACTERISTICS

| | |
|--|------------------|
| Thickener | Aluminum Complex |
| Fluid Type | Petroleum |
| Dropping Point (ASTM D-2265) | 450°F (232°C) |
| Specific Gravity | 1.15 |
| Density (lb/gal) | 9.6 |
| Oil Separation (ASTM D-6184) WT. % LOSS @ 212°F (100°C) | <3.0 |
| Flash Point (ASTM D-92) | >430°F (221°C) |
| NLGI Grade | 1 |
| Penetration @ 77°F (ASTM D-217) | 310 - 330 |
| Copper Strip Corrosion (ASTM D-4048) | 1A, typical |
| 4-Ball (ASTM D-2596) Weld Point, kgf | 800, typical |

PACKAGING

| Code No. | Container Size | Shipping Wt. |
|----------|----------------|--------------|
| 10023 | 1 gal. | 11 lb. |
| 10012 | 2 gal. | 20 lb. |
| 10015 | 5 gal. | 52 lb. |
| 10024 | 15 gal. | 152 lb. |
| 10029 | 50 gal. | 514 lb. |

For package types and part numbers
contact sales@jetlube.com.

LIMITED WARRANTY

For warranty information please visit
http://www.jetlube.com/pdf/Jet-Lube_Warranty.pdf

You can also email us at sales@jetlube.com or write to the Sales Department at the address below.