

# KOPR-KOTE®

Premium Thread Compound - Canadian Formulation



## TECHNICAL DATA SHEET

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### DESCRIPTION

**KOPR-KOTE®** Drill Collar Compound and Tool Joint Compound is an unleaded, premium quality compound containing copper flake, graphite, CZ-EX® (Jet-Lube's patented extreme pressure additive), rust and corrosion inhibitors, antioxidants, and other natural extreme pressure and anti-wear additives. These are blended into Jet-Lube's aluminum stearate base grease. The highly refined, low pour point oil used in the production of our grease ensures brushability at low temperatures as well as the necessary oxidation and thermal stability at high temperatures. Aluminum based greases offer the additional advantage of superior adhesion to wet steel surfaces and resistance to water wash-off.

**KOPR-KOTE** is formulated to prevent excessive circumferential makeup. It assures full hydraulic joint efficiency by allowing joint shoulder faces to mate completely without standoff or deformation. KOPR-KOTE has been designed to utilize the makeup charts in API RP7G.

Consistent makeup is assured, preventing stretched pins or swelling of box members. The exceptional film strength offers the highest level of protection from galling and seizure. **KOPR-KOTE** has been formulated to produce an increasing coefficient of friction under compressive force. As stress levels rise above 50% of yield, the friction factor increases limiting downhole makeup. **KOPR-KOTE** contains no lead, zinc, PTFE, or any other material which is adversely affected by high temperature. This allows **KOPR-KOTE's** film strength to remain intact at high temperatures. These characteristic make **KOPR-KOTE** a must in deep, hot or directional holes.

### APPLICATIONS

**KOPR-KOTE** Drill Collar and Tool Joint Compound is recommended for use on rotary shouldered connections where downhole conditions are severe and the probability of makeup while drilling is anticipated. Typical applications would be steamed injection wells, geothermal applications, high angle holes, problem holes involving whip stocks, horizontal drilling applications, and on rigs powered by TOP-DRIVE systems.

**KOPR-KOTE** prevents high stress levels which shorten the useful life of drill string connections.

### CHARACTERISTICS

- Contains no lead or zinc.
- Formulated with a proprietary blend of copper, graphite, and other additives for unequaled protection and prevention of excessive circumferential makeup in hostile drilling environments.
- CZ-EX® Extreme Pressure Additives provides additional protection against seizing and galling.
- Inhibitors protect against rust and corrosion.
- Aluminum stearate grease base for brushability and stability over a wide temperature range.
- Sticks to wet joints.
- Consistent rig floor makeup.
- Unequaled resistance to makeup downhole

### PRODUCT SPECIFICATIONS

Thickener	Aluminum Stearate
Fluid Type	Petroleum
Color/Appearance	Black/Brown
Dropping Point (ASTM D-566)	91°C (195°F)
Specific Gravity, Typical	1.05
Density (kg/liter), Typical	1.05
Oil Separation, Wt. % Loss @ 100°C (212°F)	<3.0%
Flash Point (ASTM D-92)	>221°C (430°F)
Water Spray-Off (ASTM D-4049)	<10%
NLGI Grade	2
Copper Strip Corrosion (ASTM D-4048)	1A

### PACKAGING

Inventory Code	Container Size	Container
10105	5 Liter	Pail
10110	10 Liter	Pail
10115	15 Liter	Pail
10155	55 Liter	Keg
10175	205 Liter	Drum

**OPERATING RANGE:**  
-18°C to 205°C (0°F to 400°F)

### LIMITED WARRANTY

Jet-Lube of Canada makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube of Canada Ltd. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube of Canada Ltd.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube of Canada Ltd. shall not be liable for incidental or consequential damages.

