



KOPR-KOTE GEOTHERMAL

TOOL JOINT & DRILL COLLAR COMPOUND

DESCRIPTION

KOPR-KOTE Geothermal drill collar and tool joint compound is a premium quality, unleaded compound containing copper flake, graphite, JET-LUBE extreme pressure additive, rust and corrosion inhibitors, anti-oxidants and other natural extreme pressure and anti-wear additives. These are blended into JET-LUBE high temperature bentone 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.

KOPR-KOTE Geothermal gives good adhesion to wet steel surfaces and resistance to water wash-off.

ADVANTAGES

- Contains no Lead or Zinc.
- Extreme pressure additive provides additional protection against seizing and galling.
- Inhibitors protect against rust and corrosion.
- Sticks to wet joints.
- Bentone base grease base for a wide temperature range.
- Consistent rig floor makeup.
- Unequalled resistance to downhole makeup.

KOPR-KOTE Geothermal contains solids 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 make completely without stand-off or deformation.

LIMITED WARRANTY

Jet-Lube (UK) Limited makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube (UK) Limited 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 (UK) Limited.

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 (UK) Limited shall not be liable for incidental or consequential damages.

July 2014

KOPR-KOTE Geothermal has been designed to utilise the makeup charts in API RP7G in the more severe drilling situation such as higher speeds, higher penetration rates, deviated holes or harder formulations, drill collars should be made up 15% - 25% over the listed RP7G values. Overtorquing is also worth considering for premium threaded connections.

PRODUCT CHARACTERISTICS

Service Range:	-18°C to 370 °C
Thickener	Bentone
Fluid Type	Petroleum
Dropping Point (ASTM D-566)	Non-melting
Specific Gravity	1.15
Oil Separation	<3.0
Wr. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>221°C (430°F)
NLGI Grade	1
Penetration @ 77°F (ASTM D-217)	310-330
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4-Ball (ASTM D-2596) Weld Point, kgf	800
Friction Factor* (Relative to API RP7G)	1.15 (Normal) 1.25 (Severe)

* Field conditions have shown that friction factor can be influenced by pipe size, thread geometry, drilling mud contamination, etc. These Friction Factors are a guideline from which a working figure should be derived by combining these with operator experience and all influencing operating conditions.

PACKAGING

Code No.	Size	Container
JA10293	20kg	Pail