



Bringing Quality & Excellence

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# TECHNICAL DATA SHEET

## KOPR-KOTE® HDD Manual Grade Heavy-Duty, Lead-Free Drill Pipe Compound NSF H-2

### DESCRIPTION

KOPR-KOTE HDD is a premium quality, non-lead compound containing Copper flake, graphite, rust and corrosion inhibitors, anti-oxidants and other extreme pressure and anti-wear additives. These are blended into JET-LUBE's own high quality base grease. KOPR-KOTE HDD gives superior adhesion to wet steel surfaces and resistance to water wash-off. The highly refined, low pour point oil used in the production of our greases ensures brushability at low temperatures as well as the necessary oxidation and thermal stability at high temperatures.

### 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.
- Smooth grease base for brushability and stability over a wide temperature range.
- Consistent makeup.
- Available in Manual and Auto grades.

KOPR-KOTE HDD's solids package is formulated to prevent excessive downhole makeup by increasing the coefficient of friction under compressive forces.

As stress levels rise above 50% of yield, the friction factor increases limiting further makeup.

Full hydraulic joint efficiency is maintained allowing joint shoulder faces to make completely without stand-off or deformation. HDD Manual grade is formulated for brush application.

The Autograde contains ARCTIC oil for spray application.

### PRODUCT CHARACTERISTICS

Service Range:	-18°C (0°F) to 232°C (450°F)
Thickener:	Aluminium Complex
Fluid Type	Petroleum
Dropping Point (ASTM D-566):	232°C (450°F)
Specific Gravity:	1,15
Oil Separation Wt. %Loss @ 212°F (100°C):	<3,0
Flash Point (ASTM D-92):	>221°C (430°F)
NLGI Grade:	1
Penetration @ 25°C (77°F) (IP50):	310-340
Copper Strip Corrosion (ASTM D-4048):	1A
Shell 4-Ball (ASTM D-2596)	
Weld point, kgf:	800
Friction Factor:	1,0

### PACKAGING

Code	Net contents	Container
74342402	4,5kg	Pail
46344427	8kg	Pail
33114033	20kg	Pail

### 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.



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