



## HDD ENVIRONMENTAL NONMETALLIC TOOL JOINT COMPOUND

### DESCRIPTION

HDD Environmental is a premium quality, non-metallic, non-conductive compound that incorporates natural extreme pressure and anti-wear additives. These components are carefully blended into JET-LUBE's all-weather calcium complex base grease. The innovative base grease provides the added benefits of low-temperature application and service, excellent adhesion to wet steel surfaces, resistance to water wash-off, and resilience against various drilling muds.

- Excellent performance on high-chrome or nickel alloys
- Contains no metals
- Extreme-pressure additives provide additional protection against seizing and galling
- Nonconductive for MWD applications
- Pumpability makes it ideal for HDD and other construction drilling applications.
- NSF 61 Certified

HDD Environmental 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. HDD Environmental, with frictional properties like KOPR-KOTE®, has been designed to utilize the makeup charts in API RP7G by multiplying the listed torque by 1.15. Adjusting make-up torque based on the connection manufacturer recommendations, prior experience, standard operating procedures, and specifications is advised.

### PRODUCT CHARACTERISTICS

Thickener	Calcium Complex
Fluid Type	Petroleum
Dropping Point (ASTM D-2265)	≥450°F (232°C)
Specific Gravity	1.36
Density (lb/gal)	11.30
Oil Separation, % Loss (ASTM D-6184)	<3.0
Flash Point (ASTM D-92)	>340°F (171°C)
Grade	1 ½ - 1
Penetration (ASTM D-217)	300-340
Copper Strip Corrosion (ASTM D-4048)	1A
Friction Factor	1.15 (Relative to API RP7G) 1.40 (Relative to API Mod)

### SERVICE RATING:

-40°F (-40°C) to 350°F (177°C)

#### For package types and part numbers

[www.jetlube.com/resources/product-index/](http://www.jetlube.com/resources/product-index/)

#### Limited Warranty

[www.jetlube.com/assets/documents/Jet-Lube\\_Warranty.pdf](http://www.jetlube.com/assets/documents/Jet-Lube_Warranty.pdf)