

# NCS-30<sup>®</sup>

## NONCONDUCTIVE THREAD COMPOUND

### DESCRIPTION

NCS-30<sup>®</sup> nonconductive thread compound is a premium quality, nonmetallic compound containing carbon based fibers and additives and other natural extreme pressure and anti-wear additives. These are blended into JET-LUBE's high temp calcium complex base grease. This new base grease offers the additional advantage of superior adhesion to wet steel surfaces, resistance to water wash-off, and most drilling muds. **Especially effective for invert or high-pH muds.**

- Excellent performance on high-chrome or nickel alloys
- Contains no metals
- NSF H2 Registered
- Extreme-pressure additives provide additional protection against seizing and galling
- Nonconductive for MWD applications
- Provides maximum protection on **Wedge Thread<sup>™</sup>\*** drill string connection designs
- High frictional properties ideal for casing drilling applications

NCS-30 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. NCS-30, with frictional properties similar to KOPR-KOTE<sup>®</sup>, has been designed to utilize the makeup charts in API RP7G multiplied by its 1.15 friction factor on API connections. Premium drill string connections such as HI-TORQUE<sup>®</sup> (HT), eXtreme<sup>®</sup> Torque (XT<sup>®</sup>), and XT-M<sup>™</sup> connections, etc., utilize make-up torques based upon thread compound friction factors of 1.0. Therefore, use the torque provided by the premium connection manufacturer. Adjusting make-up torque based on thread compound friction factor may still be advised. Friction factors for **NCS-30** were developed using full scale API tool Joint connections.

- For a "Yellow"-rated product, use NCS-30<sup>®</sup> ECF<sup>™</sup>.
- Designed for optimum performance on all Rotary-Shouldered connections such as Tool Joints and Drill Collars. It can also be used on premium/proprietary thread designs such as Double-Shouldered, Wedge Thread<sup>™</sup>\*, and other types of mechanical seal designs. It may also be used on certain non-interference tubing thread designs when properly torque compensated.

\* Trademark of Hydril Company

### PRODUCT CHARACTERISTICS

Thickener	Calcium Complex
Fluid Type	Petroleum
Dropping Point (ASTM D-2265)	≥450°F (230°C)
Specific Gravity, typical	1.30
Density (lb/gal), typical	10.95
Oil Separation (ASTM D-6184)	<3.0
Wt. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>430°F (221°C)
NLGI Grade	1
Penetration @ 77°F (ASTM D-217)	300 - 330
Copper Strip Corrosion (ASTM D-4048)	1A, typical
Friction Factor *	
Relative to API RP 7G	1.15 (drill strings)
<b>Proprietary Connections</b>	Consult Manufacturer
Service Temperature	
Oilfield/Mining/Construction Drilling	-20°F (-29°C) to 500°F (260°C)
Industrial Anti-seize Applications	-65°F (-54°C) to 2600°F (1427°C)

Shelf Life: Minimum two years from manufacture date.

\* Many factors such as pipe size, thread geometry, drilling mud contamination, etc. affect the friction factor. This is a relative number and in all applications experience and prior knowledge should be used to adjust make-up torque accordingly.

### PACKAGING

Code No.	Container Size	Shipping Wt.
16923	1 gal.	13 lb.
16913	2½ gal.	30 lb.
16915	5 gal.	48 lb.
16924	15 gal.	175 lb.
16929	50 gal.	589 lb.

### LIMITED WARRANTY

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

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, Inc. shall not be liable for incidental or consequential damages.

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## CORPORATE LOCATIONS

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