

NCS-30[®]

Nonconductive Thread Compound



TECHNICAL DATA SHEET

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DESCRIPTION

JET-LUBE NCS-30[®] 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.

- Superior resistance to water/moisture
- 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™ drill string connection designs
- High frictional properties ideal for casing drilling applications

NCS-30's 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. NCS-30, with frictional properties similar to KOPR-KOTE[®], has been designed to utilize the makeup charts in API RP7G. Premium drill string connections such as HI-TORQUE[®] (HT), eXtreme[®] Torque (XT[®]), and XT-M™ 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.

- For a "Yellow"-rated product, use NCS-30[®] ECF™.
- 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™, and other types of mechanical seal designs. It may also be used on certain non-interference tubing thread designs when properly torque compensated.

Shelf Life: Minimum two years from manufacture date.

OPERATING RANGE

-29°C to 260°C (-20°F to 500°F)

PRODUCT SPECIFICATIONS

Thickener	Calcium Complex
Fluid Type	Petroleum
Dropping Point (ASTM D-2265)	> 232°C (450°F)
Specific Gravity, Typical	1.30
Density (kg/liter), Typical	1.30
Oil Separation (ASTM D-6184), WT. % Loss @ 100°C (212°F)	<3.0
Flash Point (ASTM D-92)	>221°C (430°F)
NLGI Grade	1
Penetration @ 25°C (ASTM D-217)	300 - 330
Copper Strip Corrosion (ASTM D-4048)	1A, Typical
Friction Factor*	
Relative to API RP7G)	1.15

* 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

Inventory Code	Container Size	Container
16914	3 1/2 US Gal	Pail



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.