JET-LUBE®

NCS-30[®] WATERWELL NONCONDUCTIVE THREAD COMPOUND

DESCRIPTION

NCS-30[®] WATERWELL 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[™]* 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.

PRODUCT CHARACTERISTICS

Thickener	Calcium Complex
Fluid Type	Petroleum
Dropping Point (ASTM D-2265)	≥450°F (232°C)
Specific Gravity, typical	1.30
Density (lb/gal), typical	10.30
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	300 - 330
(ASTM D-217)	
Copper Strip Corrosion	1A, typical
(ASTM D-4048)	
Friction Factor *	
Relative to API RP 7G	1.15 (drill strings)
Relative to API RP 5A3	1.40 (relative to API-Mod)
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)

* 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.

For package types and part numbers contact <u>sales@jetlube.com</u>.

LIMITED WARRANTY

For package types and part numbers

www.jetlube.com/resources/product-index/

Limited Warranty

www.jetlube.com/assets/documents/Jet-Lube Warranty.pdf

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