



NCS-30[®]

NON-CONDUCTIVE THREAD COMPOUND

DESCRIPTION

NCS-30 nonconductive thread compound is a premium quality, unleaded compound containing chemically inert fibres, gall preventers, friction controllers, EP and AW additives. These are blended into JET-LUBE high-temperature Calcium complex base grease. The highly-refined, low pour-point oil used in the production of this grease ensures brushability at low temperatures as well as the necessary oxidation and thermal stability at high temperatures. The base grease offers superior adhesion to wet steel surfaces, resistance to water wash-off and the ability to withstand inverted and high pH muds.

Especially effective for inverted and high pH muds.

Provides enhanced performance in industrial & petro-chemical plant anti-seize applications on high Nickel alloys where graphite can result in galling.

NCS-30 can also be used for the connection of casing and tubing, particularly effective at protecting high chrome and stainless connections, although up to 40% additional torque may be required for correct makeup depending upon connection design (test a connection before running).

ADVANTAGES

- Contains no metals.
- Excellent performance on high chrome or nickel alloys.
- Excellent protection against seizing and galling.
- Sticks to wet joints.
- Consistent rig floor makeup.
- Nonconductive for MWD applications.
- Provides maximum protection on wedge thread drill string connection designs.

The **NCS-30** solids package is formulated to prevent excessive circumferential make-up by increasing the coefficient of friction under compressive forces. As stress levels rise above 50% of yield, the friction factor rises, limiting downhole makeup. Full hydraulic joint efficiency is maintained, allowing joint shoulder faces to mate completely without standoff or deformation. **NCS-30** has similar frictional properties to **Kopr-kote** and is designed to utilize the makeup charts in API RPG7G. In the more severe drilling situations such as high speeds, deviated holes or hard formations, drill collars and standard rotary connections should be makeup 25% over the listed values. For premium connection designs such as XTM and HT, utilize the torque figures provided by the manufacturer.

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.

PRODUCT CHARACTERISTICS

| | |
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| Service range | -29°C to 260°C |
| Thickener | Calcium Complex |
| Fluid Type | Petroleum |
| Colour | Off-white |
| Dropping Point (ASTM D-2265) | >450°F (232°C) |
| Specific Gravity, typical | 1.30 |
| Density (lb/gall) | 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 | 1½ |
| Penetration @ 25°C (77°F) (ASTM D-217) | 290 – 320 |
| Copper Strip Corrosion (ASTM D-4048) | 1A, typical |
| Friction Factor* | |
| Relative to API RP 7G | 1.10 Standard service 1.25 Severe service |
| Relative to API RP 5A3 | 1.10 - 1.40 (premium con's) |
| Service Temperature for Industrial Anti-seize Applications | -54°C to 1317°C |
| Shelf Life: | Minimum 5 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. | Size | Container |
|----------|--------|-----------|
| JA16905 | 5kg | Pail |
| JA16912 | 12.5kg | Pail |
| JA16915 | 20kg | Pail |