

NCS-30[®]

NONCONDUCTIVE THREAD COMPOUND

DESCRIPTION

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.**

- 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 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 multiplied by its 1.15 friction factor on API connections. 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. Friction factors for **NCS-30** were developed using full scale API tool joint connections.

- 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.

* 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) |
| Proprietary Connections | 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

Houston, Texas—World Headquarters

Maidenhead, England

Edmonton, Canada



JET-LUBE, INC.
4849 HOMESTEAD RD.,
P.O. BOX 21258 (77226-
1258) HOUSTON, TX 77028

WATS: 800-538-5823
PHONE: 713-674-7617
FAX: 713-678-4604
E-MAIL: sales@jetlube.com
www.jetlube.com