

NCS-30[®] ECF[™] DRILL STRING COMPOUND

Ospar Commission-HOCNF

(Harmonized Offshore Chemical Notification Format)

CLASSIFICATION: "Yellow" rating for Norway

CLASSIFICATION: "E" for The United Kingdom
& The Netherlands

DESCRIPTION

NCS-30[®] ECF[™] is a premium quality, nonmetallic compound containing chemically inert fibers and EXTREME PRESSURE and ANTI-WEAR additives. These are blended into Jet-Lube's biodegradable base grease, which gives a wide temperature range, superior adhesion to wet steel surfaces, resistance to water wash off and the ability to withstand invert and high-pH muds.

FROM AN ENVIRONMENTAL STANDPOINT, NCS-30 ECF is biodegradable, bioaccumulation potential-free and non-toxic to all kinds of life forms tested. This compound has the distinction of being the first compound to achieve a "Yellow" HOCNF rating in the Norwegian sector of the North Sea making it permissible in sensitive drilling areas such as the Barents Sea. It also has the distinction of being the first drilling compound to achieve a substitution warning-free HOCNF rating as well as an "E" classification in the UK sector, simplifying the completion of PON15B applications.

ADVANTAGES

- Biodegradable, non-bioaccumulative and nontoxic
- Contains no metals
- Excellent performance on high-chrome or nickel alloys
- Excellent protection against seizing and galling
- Sticks to wet joints
- Consistent rig floor make up
- Nonconductive for MWD applications
- Provides maximum protection on Wedge Thread[™] drill string connection designs
- 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.

This product is formulated to contain no detectable, leachable, volatile organics by EPA Test Method 1311-TCLP number SW846 8260B as determined by independent, 3rd party testing. Testing results are available upon request.

* Trademark of Hydril Company

PRODUCT CHARACTERISTICS

Color	Beige
Thickener	Complex Thickeners
Fluid Type	Synthetic & Vegetable
Dropping Point (ASTM D-2265)	≥450°F (232°C)
Specific Gravity, typical	1.36
Density (lb/gal), typical	11.35
Oil Separation (ASTM D-6184)	<5.0
Wt. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>450°F (232°C)
NLGI Grade	1 - 1½
Penetration @ 77°F (ASTM D-217)	300 - 330
Copper Strip Corrosion (ASTM D-4048)	1A, typical
Friction Factor*	
Relative to API RP 7G	1.0 (drill strings)
Salt Fog Resistance (ASTM B-117)	5% NaCl >2000 hrs., 20% NaCl >750 hrs.
Service Temperature	-10°F (-23°C) to 500°F (260°C)
EPA 1311-TCLP	Non-Detected

* For premium connections, consult the connection manufacturer, or one should test the torque required for proper make-up prior to running.

PACKAGING

Code No.	Container Size	Container
23715	44 lb. (20 kg.)	Pail
23729	550 lb. (250 kg.)	Drum

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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