



# ECO-SAFE SPRAYABLE NONMETALLIC THREAD COMPOUND

## DESCRIPTION

**Jet-Lube® ECO-SAFE SPRAYABLE** is a sprayable, wider range version of NCS-30 ECF. The blend of metal-free, extreme pressure, solid boundary lubricants are blended into Jet-Lube's fully synthetic biodegradable base grease providing superior wide temperature brushability and high temperature stability. **ECO-SAFE SPRAYABLE** has 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 **ECO-SAFE SPRAYABLE** is biodegradable, bioaccumulation potential-free and non-toxic to all kinds of life forms tested.

### ADVANTAGES

- Biodegradable, non-bio accumulative and nontoxic
- Contains no metals
- Excellent performance on high-chrome or nickel alloys
- Excellent protection against seizing and galling
- Sticks to wet joints
- Fluid's pour point less than -40°C so very pumpable
- 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 not be suitable on certain non-interference tubing thread designs.

SERVICE RATING: -40° F (-40°C) to 500°F (260°C)

\* Trademark of TENARIS-Hydril Company

## PRODUCT CHARACTERISTICS

Color	Beige
Thickener	Calcium Complex
Fluid Type	Synthetic PAO & Ester
Dropping Point (ASTM D-2265)	≥500°F (260°C)
Specific Gravity, typical	1.35
Density (lb/gal), typical	11.30
Oil Separation (ASTM D-6184)	<5.0
Wr. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>500°F (260°C)
NLGI Grade	0 – 1
Penetration @ 77°F (ASTM D-217)	320 - 350
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	-40°F (-40°C) to 500°F (260°C)
EPA 1311-TCLP	Non-Detected

\*For proprietary connections, consult the connection manufacturer, or one should test the torque required for proper make-up prior to running. Friction factors for **ECO-SAFE SPRAYABLE** were developed using lab & full-scale API tool Joint connections.

**NOTE: Not for use on oxygen services.**

**For package types and part numbers**

[www.jetlube.com/resources/product-index/](http://www.jetlube.com/resources/product-index/)

**Limited Warranty**

[www.jetlube.com/assets/documents/Jet-Lube\\_Warranty.pdf](http://www.jetlube.com/assets/documents/Jet-Lube_Warranty.pdf)