

JET-LUBE[®] SEAL-GUARD[™] ECF[™]

Premium Thread, Tubing, & Casing Running Compound

Ospar Commission-HOCNF

(Harmonized Offshore Chemical Notification Format)

CLASSIFICATION: "Yellow" rating for Norway

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

DESCRIPTION

JET-LUBE[®] SEAL-GUARD[™] ECF[™] has been specifically formulated to meet the performance requirements of proprietary, metal-to-metal seal and high-interference connection designs utilizing today's high-performance materials, which include "super" chrome and high-alloy steels. The smaller particle size distribution may not provide optimum sealability on 8-round and buttress thread forms.

JET-LUBE SEAL-GUARD ECF's advanced base grease is a carefully selected balance of synthetic and vegetable oils with our Extreme base grease thickener technology coupled with innovative solid lubricants. The result is superior lubrication under high loads with galling resistance equivalent to heavy metal-based compounds in a totally metal-free formulation. This patented, cutting-edge technology provides a high affinity to metal surfaces with a relatively low added-solids content. In addition, there is a large percentage of submicron particles formed by chemical reaction; creating a film that gives consistent frictional performance without restricting proper engagement of the connection contact surfaces. In lab tests, JET-LUBE SEAL-GUARD ECF has a friction factor equivalent to API MODIFIED. However, there may be connection types with which a higher/lower friction factor is incurred.

- Biodegradable
- Metal free
- Frictional properties equivalent to API MODIFIED
- High film strength to protect against galling
- Low solids content to accommodate premium connection design requirements
- Ideal for use on high-chrome connections
- Sticks to wet or oily threads

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.

APPLICATIONS

JET-LUBE SEAL-GUARD ECF is recommended for use on premium connections.

PRODUCT CHARACTERISTICS

Color	Dark Gray to Black
Thickener	Complex Thickeners
Fluid Type (oil)	Synthetic & Vegetable
Dropping Point (ASTM D-2265)	374°F (190°C)
Specific Gravity, typical	1.28
Density (lb/gal), typical	10.65
Oil Separation (ASTM D-6184)	<3.0
Wt. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>450°F (232°C)
NLGI Grade	1
Penetration @77°F (ASTM D-217)	290 - 325
Copper Strip Corrosion (ASTM D-4048)	1B
4-Ball (ASTM D-2596)	1000 typical
Weld Point, kgf	
Salt Fog Resistance (ASTM B-117)	5% NaCl >2000 hrs. 20% NaCl >750 hrs.
Service Rating	-20°F (-29°C) to 500°F (260°C)
EPA 1311-TCLP	Non-detected
Friction Factor* Relative to API-Modified	

* The frictional properties can vary from one premium connection design to another. As such, one should test the torque required for proper engagement prior to running, or consult the connection manufacturer.

Thixotropic - Stir Well Before Using

PACKAGING

Code No.	Container Size	Container
20923	9 lb. (4 kg.)	Pail
20915	44 lb. (20 kg.)	Pail
20929	450 lb. (204kg.)	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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