



# SEAL-GUARD™ ECF™

PREMIUM THREAD, TUBING,  
AND CASING COMPOUND

## ENVIRONMENTAL

Ospar Commission – Harmonized Offshore Chemical Notification Format (HOCNF)

CLASSIFICATION: “Yellow” rating for Norway  
CLASSIFICATION: “E” for The United Kingdom and The Netherlands  
Denmark PR#: 2351246

## 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 high performance materials including “super” chrome and high alloy steels. The smaller particle size distribution may not provide optimum seal performance on 8-round and buttress thread forms.

JET-LUBE® SEAL-GUARD™ ECF™ has an advance base containing a carefully selected balance of synthetic and vegetable oils with our Exteme 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 technology provides a high affinity to metal surfaces with a low added solids content. This formula has a large percentage of submicron particles that create a film which gives consistent frictional performance without restricting proper engagement of the connection.

JET-LUBE® SEAL-GUARD™ ECF™ is formulated to contain no detectable leachable volatile organics by EPA Test Method 1311-TCPL Number SW846 8260B as determined by independent third party testing. Testing results are available upon request.

- Biodegradable
- Consistent Frictional Properties
- High Film Strnght Protects Against Galling
- Ideal For High Chrome Connections
- Sticks to Wet or Oily Threads
- Small Particle Solids to Accommodate Premium Connection Design Requirements.

## APPLICATIONS

JET-LUBE® SEAL-GUARD™ ECF™ is recommended for use on premium mechanical seal connection designs. For larger diameter high pressure thread designs use HPHT THREAD COMPOUND.

**STIR WELL BEFORE USING**

## SERVICE RATING

-20°F (-29°C) to 450°F (232°C)

## PRODUCT CHARACTERISTICS

Color	Dark Grey to Black
Thickener	Complex
Fluid Type	Synthetic & Vegetable
Cone Penetration, mm X 10 <sup>-1</sup> (ASTM D-217)	290 - 325
Specific Gravity, typical	1.28 typical
Density (lb/gal), typical	10.65 typical
Oil Separation (ASTM D-6184)	<3.0 % by weight
WT. % LOSS @ 212°F (100°C)	
Flash Point (ASTM D-92)	>450°F (232°C)
Dropping Point (ASTM D-2265)	>374°F (190°C)
4-Ball, Weld Point, kgf (ASTM D 2596)	800 typical
Service Range	-20°F (-29°C) to 450°F (232°C)
Friction Factor*	1.0 to 1.2
Relative to API MODIFIED	

\* The frictional properties can vary between premium connection designs. Test the torque required for proper engagement prior to running or consult the connection manufacture. Using a friction factor of 1.2 alleviates most high shoulder issues with make-up. High shoulders tend to occur with larger diameter connection designs where contact pressures exceed 75,000 psi.

**Shelf Life:** Three years unopened and stored in nominal conditions, 9 months once opened.

## Distributed By



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## LIMITED WARRANTY

For warranty information please go to  
[www.jetlube.com/pdf/Jet-Lube\\_Warranty.pdf](http://www.jetlube.com/pdf/Jet-Lube_Warranty.pdf).