

ENVIRO-SAFE™

Thread Compound



TECHNICAL DATA SHEET

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DESCRIPTION

JET-LUBE ENVIRO-SAFE™ is a high-pressure sealant and anti-seize compound designed as a lead-free, zinc-free alternative to API-MODIFIED. The compound contains copper flake and graphite as well as other non-metallic, inorganic, extreme pressure, and anti-wear additives. It contains a balanced package of rust, corrosion, and oxidation inhibitors blended into a high quality aluminum base grease. The aluminum base grease provides excellent inherent water resistance - it sticks to wet steel, ensuring the compound will not wash off threads.

ENVIRO-SAFE contains a large volume of solids enhanced by a higher concentration of larger size particles than is found in API-MODIFIED. This improved distribution of particle sizes and volume of solids provides an excellent seal in large or small diameter, non-shouldered threads.

The lubricating and anti-seize characteristics of Jet-Lube **ENVIRO-SAFE** sealant control friction in the makeup of casing and tubing, preventing galling and wear. Using a friction factor of 1.05 relative to API-MODIFIED, proper thread engagement is ensured, providing leak resistance.

APPLICATIONS

Jet-Lube **ENVIRO-SAFE** is recommended for use on casing, tubing, line pipe, flow lines, subsurface production tools and tank battery installations. **ENVIRO-SAFE** will lubricate, seal and protect threaded connections of oilfield tubular goods on makeup, in service and in storage. The aluminum grease base is excellent for use on connections exposed to high concentrations of moisture.

ENVIRO-SAFE IS DESIGNED ACCORDING TO THE GUIDELINES OF THE PERFORMANCE SPECIFICATIONS DESCRIBED IN API SPECIFICATION 5CT AND SET FORTH IN API BULLETIN 5A3.

CHARACTERISTICS

- Lead-Free
- Contains no zinc, thus no potential for hydrogen gas evolution
- Contains additives for rust, corrosion, and oxidation protection
- Friction factor of 1.05 (relative to API-MODIFIED)
- Sticks to wet or oily threads
- Brushable over a wide range of temperatures
- Prevents leakage
- High film strength to protect against wear, galling and seizure
- H₂S Inhibited

PRODUCT CHARACTERISTICS

hickener	Aluminum Stearate
Fluid Type	Petroleum
Color/Appearance	Black/Brown
Dropping Point (ASTM D-566)	91°C (195°F)
Specific Gravity, Typical	1.21
Density (kg/liter), Typical	1.21
Oil Separation, Wt. % Loss @ 100°C (212°F)	<3%
Flash Point (ASTM D-92)	>221°C (430°F)
Water Spray-Off (ASTM D-4049)	<5%
NLGI Grade	1
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4 Ball EP (ASTM D-2596)	
Weld Point, kgf minimum	800
Load Wear Index	129

OPERATING RANGE
-18°C to 205°C/0°F to 400°F

PACKAGING

Inventory Code	Container Size	Container
21805	5 Liter	Pail
21810	10 Liter	Pail



LIMITED WARRANTY

Jet-Lube of Canada makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube of Canada Ltd. 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 of Canada Ltd.

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 of Canada Ltd. shall not be liable for incidental or consequential damages.