**RUN-N-SEAL®**

**METAL-FREE THREAD SEALANT**

**DESCRIPTION**

_JET-LUBE® RUN-N-SEAL®_ is a patented metal-free, high-pressure sealant alternative for API-MODIFIED. The compound contains graphite and other nonmetallic, inorganic, anti-wear additives blended into a high-quality lithium complex base grease. _RUN-N-SEAL_ contains a large volume of solids enhanced by a higher concentration of large-sized particles. The improved distribution of particle sizes and volume of solids provides an excellent seal in large and small diameter, non-shouldered threads. The lithium complex grease provides a high melting point, ensures brushability over a wide range of temperatures, and has excellent inherent water resistance. It sticks to wet and oily steel, ensuring the compound will not wash off threads.

_RUN-N-SEAL_ has been tested for California Code of Regulations - Title 22, Chapter 30, Article II and is not classified as a hazardous waste. _RUN-N-SEAL_ is nontoxic, even in a marine environment, as evidenced by test results on the California Hazardous Waste Assessment Bioassay and its “D” rating in the North Sea (OSPAR) Guidelines.

- Friction factor of 0.9 (relative to API-MODIFIED)
- Contains additives for protection against rust, corrosion, and oxidation
- Prevents leakage (seals to 10,000 psi)
- High film strength to protect against wear, galling, and seizure
- Exceeds all of the performance criteria described in API spec. 5CT
- Tested in conformance with API RP 5A3
- Available in Arctic and Thermal grades
- H₂S Inhibited

**APPLICATIONS**

_RUN-N-SEAL_ is recommended for use on OCTG connections, flow lines, subsurface production tools, and tank battery installation. _RUN-N-SEAL_ will lubricate, seal, and protect threaded connections of oilfield tubular goods on makeup, in service, and in storage. For premium thread designs, use _JET-LUBE® SEAL-GUARD™_. For an environmentally friendly premium thread compound, use _JET-LUBE® SEAL-GUARD™ ECF_.

**PRODUCT CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickener</td>
<td>Lithium Complex Soap</td>
</tr>
<tr>
<td>Fluid Type</td>
<td>Petroleum</td>
</tr>
<tr>
<td>Dropping Point (ASTM D-2265)</td>
<td>450°F (232°C)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.23</td>
</tr>
<tr>
<td>Density (lb/gal)</td>
<td>10.25</td>
</tr>
<tr>
<td>Oil Separation</td>
<td>&lt;3.0</td>
</tr>
<tr>
<td>Wt. % Loss @ 212°F (100°C)</td>
<td></td>
</tr>
<tr>
<td>Flash Point (ASTM D-92)</td>
<td>&gt;450°F (232°C)</td>
</tr>
<tr>
<td>NLGI Grade</td>
<td>1</td>
</tr>
<tr>
<td>Penetration @77°F (ASTM D-217)</td>
<td>310 - 340</td>
</tr>
<tr>
<td>Copper Strip Corrosion</td>
<td>1A</td>
</tr>
<tr>
<td>(ASTM D-4048)</td>
<td></td>
</tr>
<tr>
<td>Shell 4-Ball (ASTM D-2596)</td>
<td></td>
</tr>
<tr>
<td>Weld Point, kgf</td>
<td>800</td>
</tr>
<tr>
<td>Friction Factor</td>
<td>0.9 (Relative to API-MODIFIED)</td>
</tr>
</tbody>
</table>

**Shelf Life:** Minimum two years from date of manufacture.

**PACKAGING**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Container Size</th>
<th>Shipping Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>17023</td>
<td>1 gal.</td>
<td>11 lb.</td>
</tr>
<tr>
<td>17012</td>
<td>2 gal.</td>
<td>22 lb.</td>
</tr>
<tr>
<td>17015</td>
<td>5 gal.</td>
<td>54 lb.</td>
</tr>
<tr>
<td>17017</td>
<td>5 gal. (metal)</td>
<td>54 lb.</td>
</tr>
</tbody>
</table>

**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.

**CORPORATE LOCATIONS**

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Houston, Texas–World Headquarters  
Edmonton, Canada

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E-MAIL: sales@jetlube.com  
www.jetlube.com
**JET-LUBE, INC.**

**MATERIAL SAFETY DATA SHEET**

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**Product Name:** RUN-N-SEAL®
**Chemical Family:** Petroleum based thread compound & sealant

**Use:** Sealant for tubing, casing, line pipe & other tapered, threaded connections.

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**Hazardous Components**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Wi%</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>STEL: 10mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum oil</td>
<td>64742014/64742525</td>
<td>60-100</td>
<td>Oil mist</td>
<td>N/A</td>
</tr>
<tr>
<td>Nonhazardous Blend</td>
<td>68815496/7782425</td>
<td>30-60</td>
<td>TWA-5mg/m³</td>
<td>UN</td>
</tr>
</tbody>
</table>

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**Hand Protection:** Protective gloves for hypersensitive persons.

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**Extinguishing Media:** Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist.

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**Main Hazards—Health Effects**

**Eyes:** May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled. **Ingestion:** May cause diarrhea. **Skin:** For hypersensitive persons, may irritate the skin after prolonged periods of contact.

**Eyes:** Flush with water until all residual material is gone. If irritation persists, seek medical help. **Inhalation:** Clear air passage. If respiratory difficulty continues, seek medical help. **Ingestion:** Wash out mouth immediately. Consult physician. **Skin:** Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

**Personal Precautions:** Wear gloves & protective overalls. **Environmental Precautions:** Do not allow it to enter drains. Spillage: Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

**Handling:** No special handling precautions necessary.

**Storage:** Do not store at elevated temperatures.

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**Respiratory Protection:** None needed.
**Eye Protection:** Glasses, if applied to parts in motion.
**Body Protection:** Overalls.

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**Physical State:** Semisolid gel
**Color:** Black
**Odor:** Petroleum
**pH:** Neutral
**Melting Point °F (°C):** 500 (260)
**Flash Point (COC) °F (°C):** 450 (232)
**Autoignition Temperature °F (°C):** >500 (260)

**Explosive Properties:** LEL: 0.9% UEL: 7% Evaporation Rate (Butyl Acetate): <0.01 Partition Coefficient (Log Pow): N/A

**Vapor Pressure (kPa):** <0.01

**OAR Value:** N/A
**Oxidizing Properties:** None
**Water Solubility:** Nil
**Vapor Density:** >5

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**Stability:** Chemically stable under normal conditions. No photoreactive agents.


**Genotoxicity:** None known. Chronic Toxicity: None known. California Prop 65: N/A Carcinogen: NTP: No IARC: No OSHA: No

**EC Classification (67/548/EEC):** None
**Allergens:** None known. LC-50: >2000mg/l—extrapolated from component data LD-50: N/A

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**Possible Effects:** In extreme cases, may generate oil fractions that could act as a marine pollutant. Occurrences of this nature are highly unlikely.

**Behavior:** Relatively well behaved. Bioaccumulation potential nil.

**Product Disposal:** Do not incinerate. Contact waste disposal company or local authority for advice.

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**Shipping Information**

**UN No.:** Nonhazardous
**Air Transport (ICAO & IATA):** Nonhazardous

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**Exposure control/personal protection**

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**Shipping Information**

**D.O.T.:** Nonhazardous
**UN No.:** Nonhazardous

**Sea Transport (IMO & IMDG):** Nonhazardous
**Road & Rail Transport (ADR/RID):** Nonhazardous

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**Labeling Information:** None needed
**EC Annex 1 Classification:** Not Applicable
**R Phrases:** R22—harmful if swallowed.
**S Phrases:** None applicable, as known.

**Ozone Depleting Chemicals:** Not applicable.
**TSCA:** All components are listed.
**WHMIS (Canada):** Not controlled.
**Canadian DSL:** All components listed.
**40 CFR Part 372 (SARA Section 313):** None
**SARA 311/312:** None
**CERCLA:** Nonhazardous
**RCRA Hazard Class:** Nonhazardous
**TSCA 12B Components:** None

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**SDS first issued.**
**SDS data revised.**

**New Jersey Right To Know:** See Section II

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**Signature:**

**Prepared by:** Donald A. Oldiges
**Date Issued:** February 26, 2008

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