

JET-LOK® II

EPOXY-BASED THREADLOCK KIT

DESCRIPTION

JET-LOK® II is a two-part epoxy with metallic fillers that can be used to permanently lock threaded connections under normal operating conditions. The eight-ounce kit uses both a new catalyst for added pot life and durability with lower toxicity and the rapid-curing conventional catalyst; making it the optimum choice for any application. It is designed for use on all threaded joints or fasteners where an exceptionally strong and durable bond is required. It is especially useful on drilling tools, casing, and other tubulars where the effective prevention of joint loosening is required.

USE

The catalyst is emptied into the can containing the base epoxy resin, where the two are thoroughly mixed. The applicator is used to completely cover the male threads with the mixture and the joint is then coupled. The 16-ounce kit uses an amine-type hardener where the pot life of the mixture under average conditions is 50 minutes, during which time it remains in a workable consistency. The eight-ounce kit also uses a new technology hardener to provide greater chemical resistance and gives a pot life of 120 - 150 minutes. Complete cure for both occurs in 24 hours. The cure time can be reduced by elevating the temperature up to 250°F (121°C).

APPLICATIONS

JET-LUBE® JET-LOK II is recommended for use on casing, shoes, couplings, and collars; eliminating the need for gas/arc welding. Threadlock Kit offers a distinct advantage over welding in that threaded connections may be broken out by heating to 550°F (288°C). This product is also excellent for any application requiring a strong, permanent bond that has high vibration resistance.

ADVANTAGES

- Complete kit
- Noncorrosive
- Economical
- Adheres to any clean surface
- Ease of application
- Prevents back-off
- Resistant to acids, solvents, & water
- Good for service up to 400°F (204°C)

PRODUCT CHARACTERISTICS

| | |
|-------------------------------|-------------------|
| Color | Grey |
| Density (lb/gal) | 15.58 |
| Specific Gravity | 1.87 |
| Flash Point | 430°F (221°C) |
| Pot Life | 75 minutes (avg.) |
| Maximum Exotherm | 134°F (50°C) |
| Temperature Stability | 400°F (204°C) |
| Friction Factor | |
| Rotary Shouldered Connections | 0.9 - 1.0 |
| *Noninterference (T&C) | 1.3 - 2.0 |

*Friction factors and coefficients of friction can be affected by many factors such as total surface movement under load, contact pressure, thread design parameters, temperature and hydraulic cell development due to trapping of product in the threads.

| Casing O.D. (inches) | Approx. # of Joints per Kit (16 oz.) |
|----------------------|--------------------------------------|
| 4½ | 10 |
| 5½ | 6 |
| 6½ - 7 | 4 |
| 7-5/8 - 9-5/8 | 3 |
| 10¾ - 13-5/7 | 2 |

CAUTION

Prolonged, overexposure could result in skin and eye irritation or sensitization. Mix in well ventilated area. Use rubber or plastic gloves and goggles when mixing for application. Practice reasonable care and cleanliness when using this product. For persons with hypersensitive skin, wash hands and face thoroughly with soap and water after completion of job. If material enters eyes, flush with water immediately and seek medical care.

PACKAGING

| Code No. | Kit Size | Container |
|----------|----------|-----------|
| 60867 | 8 oz. | Can |
| 60868 | 16 oz. | Can |

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

Houston, Texas—World Headquarters

Maidenhead, England

Edmonton, Canada

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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

Product Name: JET-LOK® II

Chemical Family: Metal filled epoxy cement

Use: Sealant/threadlocker for tubing, casing, line pipe and other tapered threaded connection.

Manufacturer/Supplier: JET-LUBE, INC.

Address: 4849 Homestead Rd., Ste. #200

Houston, TX, 77028 USA **Phone:** 713-674-7617

Emergency Phone: 713-674-7617 **Fax:** 713-678-4604

Chemtrec 24 hours (USA): 800-424-9300

| Hazardous Components | CAS No. | Wt% | OSHA PEL | ACGIH TLV | Other Limits of Exposure |
|----------------------|-----------|--------|---------------------|---------------------|--------------------------|
| Epoxy Resins | 25068386 | 40 max | Not Est. | Not Est. | N/A |
| Amine Type Activator | 112243 | 5 max | Not Est. | Not Est. | N/A |
| Silica | 112945525 | 15 max | 20mg/M ³ | 5mg/M ³ | N/A |
| Zinc Dust | 7440666 | 25 max | 15mg/M ³ | 10mg/M ³ | N/A |
| Aluminum Powder | 7429905 | 25 max | 15mg/M ³ | 15mg/M ³ | N/A |
| Amide Type Activator | N/A | 5 max | Not Est. | Not Est. | N/A |

Main Hazards—Health Effects

Eyes: May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled. **Ingestion:** May cause diarrhea.

Skin: May irritate the skin if not immediately removed; can bond securely to skin or other surfaces.

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. **Inhalation:** Clear air passages. 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.

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

Unsuitable Extinguishing Media: Water jet. **Protective Equipment for Fire fighting:** Self-contained breathing apparatus.

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. Residue will cure to a hard film.

Handling: Avoid contact with skin and eyes.

Storage: Do not store at elevated temperatures.

Respiratory Protection: None needed.

Hand Protection: Protective gloves for hypersensitive persons.

Eye Protection: Glasses, if applied to parts in motion.

Body Protection: Overalls.

Physical State: Semisolid paste **Color:** Grey **Odor:** Mild **pH:** Neutral **Boiling Range/Point °F (°C):** UN

Melting Point °F (°C): 550 (288)

Flash Point (COC) °F (°C): 430 (221)

Autoignition Temperature °F (°C): >500 (260)

Explosive Properties: LEL: UN

UEL: UN

Evaporation Rate (Butyl Acetate): Nil

Partition Coefficient (Log Pow): N/A

Vapor Pressure (kPa): <0.01

% Volatiles: Nil

Density (g/cm³): 1.87

Flammability: Flammable at ambient temperature.

OAR Value: N/A (no volatiles)

Oxidizing Properties: Nil

Water Solubility: Nil

Vapor Density: >5

Stability: Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition.

Materials to Avoid: Strong inorganic & organic acids, oxidizing and copper reactive agents.

Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons, oxides of carbon and other noxious fumes.

Acute Toxicity: Not known.

Irritancy—Skin: Very mild.

Skin Sensitization: Not known.

California Prop 65: N/A

Subacute/Sub-chronic Toxicity: Not known.

Genotoxicity: None known.

Chronic Toxicity: None known.

Carcinogen: NTP: No IARC: No OSHA: No

EC Class (67/548/EEC): No

LC-50: N/A (cement)

LD-50: N/A

Possible Effects: Nil

Behavior: Well behaved. Bioaccumulation potential nil.

Environmental Fate: Cures to near inert hard dense mass.

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

Container Disposal: Consult waste disposal company or local authority for advice.

D.O.T.: Not classified as hazardous for transport. **UN No.:** Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous

Sea Transport (IMO & IMDG): No restrictions

Road & Rail Transport (ADR/RID): No restrictions

Labeling Information: None needed

EC Annex 1 Class: N/A

R Phrases: R22—harmful if swallowed (could block passages)

S Phrases: N/A, as known.

Ozone Depleting Chemicals: N/A **TSCA:** All components are listed.

WHMIS (Canada): Not controlled.

Canadian DSL: All components listed.

40 CFR Part 372 (SARA Section 313): This product contains in part raw material components subject to reporting.

CERCLA RQ: Nonhazardous

RCRA Hazard Class: Nonhazardous

SARA 311/312: None

TSCA 12B Components: Zinc

SDS first issued. SDS data revised.

New Jersey Right To Know: See Section II

Signature: 
Prepared by: Donald A. Oldiges

Date Issued: October 4, 2007

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| LEGEND | |
|--------|---|
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HMIS SYMBOL

| | |
|--------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 1 |
| REACTIVITY | 1 |
| PPI | B |

NFPA SYMBOL

