

# 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	227 gm.	Can
60868	454 gm.	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 <sup>3</sup>	5mg/M <sup>3</sup>	N/A
Zinc Dust	7440666	25 max	15mg/M <sup>3</sup>	10mg/M <sup>3</sup>	N/A
Aluminum Powder	7429905	25 max	15mg/M <sup>3</sup>	15mg/M <sup>3</sup>	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/cm<sup>3</sup>):** 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:** June 25, 2008

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LEGEND	
I.	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY
II.	COMPOSITION INFORMATION ON INGREDIENTS
III.	HAZARDS IDENTIFICATION
IV.	FIRST AID MEASURES
V.	FIRE FIGHTING MEASURES
VI.	ACCIDENTAL RELEASE MEASURES
VII.	HANDLING AND STORAGE
VIII.	EXPOSURE CONTROL/PERSONAL PROTECTION
IX.	PHYSICAL AND CHEMICAL PROPERTIES
X.	STABILITY AND REACTIVITY
XI.	TOXICOLOGICAL INFORMATION
XII.	ECOLOGICAL INFORMATION
XIII.	WASTE DISPOSAL
XIV.	TRANSPORT INFORMATION
XV.	REGULATORY INFORMATION
XVI.	OTHER INFORMATION

**HMIS SYMBOL**

HEALTH	1
FLAMMABILITY	1
REACTIVITY	1
PPI	B

**NFPA SYMBOL**

