

KILN GREASE HT™

EXTREME SERVICE LUBRICANT

DESCRIPTION

JET-LUBE® KILN GREASE HT™ is a premium lubricant formulated using a high viscosity, severely refined base oil. The base fluid combined with aluminum complex thickener produces a grease with exceptional high temperature, water resistance, and high load characteristics. The grease is ideal for use in kiln bearings, steel mills, pulp and paper mills, or in any severe service application where temperature, water washout and contamination, extreme loads or a combination of these factors are present.

The aluminum complex thickener utilized in **KILN GREASE HT** was selected for its excellent stability, temperature and water resistance. The thickener, combined with friction reducing polymers and boundary lubricants, aids in forming a strong seal against the intrusion of water and waterborne contaminants helping to extend the useful life of the grease while increasing the lubrication properties.

The high viscosity base fluid helps in giving the grease its high temperature and EP characteristics. The result is a non-clay grease with a dropping point above 540°F and 500 kgf weld point, **KILN GREASE HT** is less volatile and oxidizes slower than conventional petroleum oil greases, and does not tend to cross link and rubberize like silicone based systems. This allows the grease to be used at elevated temperatures and high loads with reduced greasing intervals.

- Extremely resistant to heat & oxidation
- Superior water resistance
- Excellent shear stability - will not run or pound out
- Resists wear
- Smooth texture
- Dropping Point >500°F (260°C)
- Protects against high loads, shock, welding and scoring
- Extends maintenance intervals
- Color-Green

APPLICATIONS

For grease lubricated roll neck bearings on blooming, billet, slabbing, bar, plate and other mills in the steel industry. Ideal for low speed, plain bearing and sliding surface applications operating under marginal or boundary lubrication conditions; as well as backup or work-roll and table bearings and ball, roller and plain bearings. Also excellent for high temperature applications such as oven fan motor bearings, furnace car wheel bearings, annealing furnaces, drying ovens, sintering plants, kilns and soaking pits. Exceptional for use in paper mill bearings operating under wet and/or hot conditions.

PRODUCT CHARACTERISTICS

Thickener	Aluminum Complex
Fluid Type	Lubricating
Color/Appearance	Green
Dropping Point (ASTM D-566)	542°F (283°C)
Specific Gravity	0.94
Density (lb/gal)	7.80
Additive Type	Solids, including PTFE
Flash Point (ASTM D-92), typ.	>560°F (293°C)
Autoignition Point (CALCULATED)	>615°F (324°C)
NLGI Grade	2
Penetration @77°F (ASTM D-217)	265 - 295
Copper Strip Corrosion (ASTM D-4048)	1A
4-Ball (ASTM D-2596)	
Weld Point, kgf	500
Load Wear Index	80
Wear Scar Diameter (ASTM D-2266)	0.6
Oxidation Resistance (ASTM D-942)	
PSI Drop, 200 hours	<5.0
Base Oil Viscosity (ASTM D-445)	
cSt @ 40°C	ISO 460
Service Rating	0°F (-18°C) to 500°F (260°C)

PACKAGING

Code No.	Container Size	Container
75150	14 oz.	Cartridge
75116	35 lb.	Pail
75124	120 lb.	Drum
75129	400 lb.	Drum

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: KILN GREASE HT™
Chemical Family: Hi-temp lubricating grease.
Use: Equipment lubrication.

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
Petroleum oil	64742570/64742627	60-100	Oil mist TWA-5mg/M ³	N/A	N/A
Nonhazardous Blend	82980549/1317653 57855773/9002840	10-20	UN	UN	UN

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.

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. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

Handling: No special handling precautions necessary. **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: Lubricating Grease **Color:** Green **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** >700 (371)
Melting Point °F (°C): 500 (260) **Flash Point (COC) °F (°C):** >560 (293) **Autoignition Temperature °F (°C):** >615 (324)
Explosive Properties: LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A
Vapor Pressure (kPa): <0.01 **Percent Volatiles:** Nil **Density (g/cm³):** 0.94 **Flammability:** Not flammable at ambient temperature.
OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Nil **Vapor Density:** >5

Stability: Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition & extreme temps. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing & copper reactive agents.

Hazardous Decomposition Products: Burning generates oxides of carbon, gaseous fluorine mixtures, smoke and fumes.

Acute Toxicity: Not known. **Irritancy—Skin:** Very mild. **Skin Sensitization:** Not known. **Subacute/Sub-chronic Toxicity:** Not known.
Genotoxicity: None known. **Chronic Toxicity:** None known. **California Prop 65:** N/A **Carcinogen:** NTP: No IARC: No **OSHA:** No
EC Class (67/548/EEC): No **Allergens:** None known. **LC-50:** >2000mg/l-extrapolated from component data (Mysidopsis Bahía). **LD-50:** N/A

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.

Environmental Fate: Highly unlikely to cause widespread contamination. Nontoxic to marine or land organisms.

Product Disposal: Do not incinerate. Contact waste disposal company or local authority for advice. **Container Disposal:** Pails without liner—see Product Disposal section above. **Pails with plastic liner—**pail may only be disposed of via standard waste disposal services, recycled or reused. **Liner—**see Product Disposal section above.

Not classified as hazardous for transport. **D.O.T.:** Nonhazardous **UN No.:** Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous
Sea Transport (IMO & IMDG): Nonhazardous **Road & Rail Transport (ADR/RID):** Nonhazardous


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):** N/A

CERCLA: Nonhazardous **RCRA Hazard Class:** Nonhazardous **SARA 311/312:** None **TSCA 12B Components:** None

SDS first issued. SDS data revised. **New Jersey Right To Know:** See Section II

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: February 8, 2004

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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	0
FLAMMABILITY	1
REACTIVITY	0
PPI	NR

NFPA SYMBOL

