

PFPE GREASE

DESCRIPTION

PFPE GREASE is a PTFE thickened perfluorinated polyether fluid providing optimum oxidation resistance at temperatures up to nearly 600°F. This combination of materials has the additional benefit of being essentially inert to all but a couple of fluorinated, higher molecular weight solvents. The base fluid carries exceptionally high extreme pressure properties with a 4-Ball Weld Point of 800 - 1000 kilograms of force. It must be cautioned, however, that base oil viscosity is the critical parameter in long-term bearing protection and performance.

Due to its extreme resistance, Jet-Lube **PFPE GREASE** can be utilized in such services as oxygen, chlorine where other lubricants would spontaneously combust. It can also be utilized around gasoline, benzene, xylene, etc. that easily wash away other lubricants.

Currently Jet-Lube **PFPE GREASE** is only available with an ISO 150 base oil viscosity in the United States, but offered in an ISO 460 as well from our Maidenhead England facility. If applications demand, we can offer both as well.

- Unmatched chemical & solvent resistance
- Excellent electrical & radiation resistance
- Compatible with nearly all elastomers & plastics
- Inert to liquid & gaseous oxygen
- Capable of NSF/USDA food contact registration
- Nonflammable
- Extremely wide operating temperature range
- Nontoxic

APPLICATIONS

O-ring lubrication and protection; food processing; canning and textile equipment; solvent resistant for valve, gasket and bolt applications with rail cars; lubrication of equipment used in high vacuum applications; cryogenic apparatus and pneumatic systems; any many other extreme service applications below 600°F.

PRODUCT CHARACTERISTICS

| | |
|-----------------------------|-------------------|
| Thickener | PTFE, micro-sized |
| Fluid Type | PFPE |
| Color | White to beige |
| Dropping Point (ASTM D-566) | None |
| Specific Gravity | 1.92 typ. |
| Density (lb/gal) | 16.00 typ. |
| Cone Penetration | |
| Unworked | 282 |
| 60 Strokes | 290 |
| 10,000 Strokes | 288 |
| Base Oil Viscosity | ISO 150 |
| cSt @ 40°C | 147 |
| cSt @ 100°C | 16 |
| Viscosity Index | 117 |
| 4-Ball Weld Point | 800 kgf |
| Load Wear Index | >100 |

PACKAGING

| Code No. | Container Size | Container |
|----------|----------------|-----------|
| 38350 | 1.72 lb. | Cartridge |
| 38307 | 3.5 lb. | 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: **PFPE GREASE**
Chemical Family: Synthetic based lubricant
Use: High temperature and chemical resistant lubricant applications

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 |
|----------------------|------------------|-----|----------|-----------|--------------------------|
| Nonhazardous Blend | 60164514/9002840 | 100 | UN | UN | STEL: 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: Smooth semiplastic **Color:** Opaque white **Odor:** Low **pH:** Neutral **Boiling Range/Point °F (°C):** >600 (316)

Melting Point °F (°C): None **Flash Point (COC) °F (°C):** >600 (316) **Autoignition Temperature °F (°C):** >600 (316)

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

Vapor Pressure (kPa): <0.01 **Percent Volatiles:** Nil **Density (g/cm³):** 1.9 **Flammability:** Not flammable at ambient temperature.

OAR Value: N/A **Oxidizing Properties:** None **Water Solubility:** Not soluble **Vapor Density:** >5

Stability: Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition and extreme temperatures. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, fluorocarbons and possibly HF. Residue mainly comprised of soot & mineral oxides.

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 Classification (67/548/EEC): No **LC-50:** >4000mg/kg—extrapolated from component data. **LD-50:** Not applicable

Possible Effects: Unlikely to act as a marine pollutant

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

New Jersey Right To Know: See Section II

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: October 13, 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 | 0 |
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |
| PPI | N/A |

NFPA SYMBOL

