

SS-30™

HIGH-TEMPERATURE ANTI-SEIZE AND GASKET COMPOUND

DESCRIPTION

SS-30™ literally copper plates mating and sliding surfaces to provide protection against seizure, galling, and heat-freeze. Its high content of copper particles prevents metal-to-metal contact, maintaining lubrication qualities under wide variations of temperature, expansion, contraction, and cyclic pressures and loadings.

SS-30 has a high content of micro size, pure copper flakes that are homogenized into a non-melting, non-volatile grease. It contains no lead or graphite, does not require mixing, and will not separate, settle out, harden, or dry out in storage. It is fortified with anti-oxidants and corrosion inhibitors.

SS-30 is easy to use, brushes on readily, and adheres tenaciously - even on wet or oily surfaces. It brushes evenly into thread roots and over any surface, assuring complete and efficient coverage. It can be applied directly to hot surfaces without running off, dripping, or thinning out.

SS-30 is specially formulated for stainless steel fittings, protecting them from pitting and breakage. It works equally well on a wide range of similar and dissimilar metals and mating parts, including steel, cast iron, brass, copper, plastics, titanium gasket materials and packings.

- Lead Free
- Protects against seizure, heat-freeze, galling, rust and corrosion
- Ideal for use on stainless steel and for joining dissimilar metals
- Brushes on easily
- Highly adhesive on both wet and dry surfaces
- "Copper Plates" to prevent metal-to-metal contact
- Will not run, drip, or settle out
- Color - Copper

APPLICATIONS

HIGH TEMPERATURE: For threaded or flanged connections in internal combustion and jet engines. Use with heat exchangers, furnaces, cat crackers, and other high temperature applications.

GENERAL USES:

Studs	Screws	Bushings
Nuts	Slides	Flanges
Bolts	Press Fits	Sliding Surfaces

CONFORMS TO:

Military Specification MIL-PRF-907E

SERVICE RATING:

-65°F (-54°C) to 1800°F (982°C)

PRODUCT CHARACTERISTICS

Thickener	Organo Clay
Fluid Type	Petroleum
Color/Appearance	Copper Paste
Dropping Point (ASTM D-566)	None
Specific Gravity	1.2
Density (lb/gal)	10.0
Oil Separation	<2.0
Wt. % Loss @ 212°F (100°C)	
Flash Point (ASTM D-92)	>560°F (292°C)
NLGI Grade	1½
K-Factor	0.13
1" B-7 Studs @ 60k-80k psi Contact Stress	
Penetration @ 77°F (ASTM D-217)	280 - 300
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4-Ball (ASTM D-2596)	
Weld Point, kgf	250
Load Wear Index	Not Applicable
Salt Fog Resistance	100
20% NaCl @ 100°F, Hrs. Free of Corrosion (ASTM B-117)	

NOTE: Not for use on oxygen lines. Not intended for use with aluminum where galvanic corrosion could be a significant issue.

PACKAGING

Code No.	Container Size	Container
12555	¼ lb.	Brush Top can
12502	½ lb.	Brush Top can
12504	1 lb.	Brush Top can
12507	2 lb.	Plug Top can
12523	10 lb.	Pail
12524	150 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: **SS-30™**
Chemical Family: Petroleum based lubricating grease with copper filling
Use: MIL-PRF-907E Anti-seize lubricant

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	STEL: 10mg/M ³
Nonhazardous Blend	108327/68953582	5-10	UN	UN	STEL: UN
Copper Powder	7440508	25-35	N/A	1mg/M ³	STEL: 2mg/M ³

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:** Nitrile gloves for hypersensitive persons.
Eye Protection: Glasses, if applied to parts in motion. **Body Protection:** Overalls.

Physical State: Semisolid paste **Color:** Copper **Odor:** Petroleum **pH:** Neutral **Boiling Range/Point °F (°C):** >700 (371)
Melting Point °F (°C): N/A **Flash Point (COC) °F (°C):** 560 (293) **Autoignition Temperature °F (°C):** >680 (360)
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):** 1.20 **Flammability:** Not flammable at ambient temp.
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 agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon. Residue mainly comprised of soot & metal 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 Class (67/548/EEC):** No **Allergens:** None known. **LC-50:** 1.98g/lit (mysidopsis bahia), based on assessment from related products. **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 notable contamination.

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):** Copper
SARA 311/312: None **CERCLA:** Nonhazardous **RCRA Hazard Class:** Nonhazardous **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: September 12, 2007

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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	0
PPI	B

NFPA SYMBOL

