SYG-990 FOOD GRADE VACUUM GREASE

Silicon Vacuum Grease

Product Description

SYG-990 Silicon Vacuum Grease is a homogenous mixture of Poly-Dimethyl Siloxane oils and aerogel of silicone oxide which forms a translucent material of grease like consistency which is maintained over a wide temperature range of -60 °C to 250 °C. It does neither crack nor dry-up or separate into layers due to aging. It spreads uniformly and adheres on to dry surfaces of metals, ceramics, rubbers, PVC, electrical insulation etc.

It possesses very good electrical properties of high volume resistivity, dielectric constant and strength, low dissipation factor, high resistance to arcing and corona all of which are little effected by high humidity. It is chemically inert and nonreactive and thus does not corrode materials and on the contrary helps to protect and maintain the flexibility of materials made of natural or synthetic rubbers, vinyl plastics and similar materials.

Registered by **NSF (Class H1)** for use where there is potential for incidental contact with food. These products meet the Former guidelines (1998) of the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact) and listed in Miscellaneous Publication List of Proprietary Substances and Non-food Compounds". Product contains only substances permitted under US 21 CFR 178.3570, for use in lubricants with incidental food contact.

APPLICATIONS

Lubrication for control and pressure plug valves, water softener and faucet valves. Sealant for vacuum and pressure systems and outdoor equipment (also shipboard) subject to washing and harsh environmental exposure, such as meters, electrical service entrance and underground connections. No-oxidizing and strongly hydrophobic highly stable at a temperature of - 60 °C to 250 ° C., resistant to most chemicals and high resistance to aging. It is used in manufacture of semiconductor devices, isolators of high voltage contacts, for industrial applications as a moisture proof dielectric seal cum lubricant for ignition system, engine, battery, switchgear, battery terminal, cable connector, X-Ray, radio electric equipment's. It also can be used as a valve and O-ring lubricant.

Advantage

Resistant to dilute solutions of acids alkalinize and salts and have high dielectric indexes, which do not depend on temperature. Consistency and insulating properties remain almost unchanged over a wide range of temperatures. Does not form hard deposits and maintains excellent lubricating and sealing properties. Very effective in the treatment of insulators and switch installations especially in heavily industrialized and coastal areas.

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How to use

It can be applied by hand, specially designed automated equipment, brushing or wiping. Certain designs of grease guns may seize up; test prior to use. A thinner consistency can be achieved by dispersing in solvents such as xylene, mineral spirits and methyl ethyl ketone. It can then be applied by brushing, dipping or spraying.

Typical Properties

SYG-990/Silicon Vacuum Grease	0	1	2	3
Color	Translucent white			
Odor	Odourless			
Temp. Range	-60 to 250 ° C			
Drop Point	None			
Penetration	370	320	270	240
Flash Point of Base oil	>300 ° C			
Freedom from abrasive particles	No perceptible scratch on plastic test plates			
Resistance to high temp.	(200+/- 5 °C. for 30 hrs.)			
a). Evaporative loss	2.0 % (max.			
b). Oil separation	8.0% (max.)			
Low temperature stability				
(appearance at -50° C.)	No crack or solidification			
Electrical :				
a). Volume resistivity (ohm/cm at 27 ° C.)	1.35 X 10/15			
b). Dielectric constant 1 MHz	2.82			
c). Dissipation factor at KHz	Tan less than 0.0005			
ROHS Compliant	Yes			

Available Packs:

- ***50, 100, 200 Grams Tube***
- ***1, 5, 18, 50, 180 Kg.***

Shelf Life – 36 Months from the Manufacturing month

*All related specifications are meets or exceeds.

Due to continual product research and development, the information contained herein is subject to change without notification.

Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

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Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Synthetic Silicon Vacuum FG Grease
Product Name: SYG 990/Silicon Vacuum Grease
Company Identification Petrelplus Inc.
One World Center, Tower One,
9TH Floor, SenapatiBapatMarg,
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2. COMPOSITION

Polydimethylsiloxane, Fumed Silica

3. HAZARDS INDENTIFICATION

Not classified as hazardous.

4. FIRST-AID MEASURES RESPIRATORY SYSTEM

Remove to fresh air and get medical attention.
INGESTION
Do not induce vomiting. Wash mouth out with water and obtain medical attention.
EYES
Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.
SKIN
Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

5. FIRE-FIGHTING METHODS

Foam, carbon dioxide or dry power.

6. ACCIDENTAL RELEASE MEASURE

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance with the relevant waste disposal regulations.

7. STORAGE AND HANDLING

Storage
Store in delivery packs in a cool dry place.
HANDLING
At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standard: The substance with exposure limit is: Notation 1:
Exposure Standard: 2nd substance with exposure limit is: Notation 2:
PERSONAL PROTECTION
Respiratory Protection:
Type of Cartridge (if Applicable):
Eye Protection: Safety Spectacles
Hand Protection: Gloves butyl or nitrile rubber
Industrial Hygiene: No eating drinking or smoking in the work area Ventilation: At room temperature handle in a well- ventilated area. Use exhaust ventilation if exposure to flume or aerosol can occur.
PROTECTION AGAINST FIRE AND EXPLOSION
Combustible but not readily ignited. No explosion hazard.
EC SAFETY PHRASES
Not classified as hazardous.

9. TYPICAL PROPERTIES:

Color: Translucent White
Drop point: None
Temperature °C: -60 to 250
NLGI grade: 3-0

10. STABILITY AND REACTIVITY

HAZARDOUS REACTIONS
Comments
HAZARDOUS DECOMPOSITION PRODUCTS
Thermal decomposition produces noxious fumes.

11. TOXICOLOGICAL INFORMATION

LD50 Acute Oral Toxicity: > 5000: mg/Kg: Rat LC50
Acute Inhalation: mg/1:
Eye Irritation: No: Rabbit Skin Irritation: No.: Rabbit
Sensation: No:
Further Information:

12. ECOLOGICAL INFORMATION

LC50 (96 Hour): mg/1 EC50 (24 Hour): mg/1
Biodegradability (Coupled units):

13. DISPOSAL CONSIDERATIONS

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

14. TRANSPORT INFOMRATION

IMDG No.: Not classified
Packing Groups: IATA-DGR Class No.: Not classified
TREMCARD: Not classified RID/ADR Class No.: Not classified Other Information

15. REGULATORY INFORMATION

Classification and labeling according to EC Directives 67/548 Not classified as hazardous.
EC Risk Phrases
Not classified as hazardous. Other Hazardous
EC Safety Phrases
Not classified as hazardous

16. OTHER INFORMATION: PRODUCT SAFETY

For safety reasons, it is IMPERATIVE that customer: - Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.