

SYG-990/SILICON GREASE

Food Grade Silicon Grease

Product Description

SYG-990 Silicon Grease is high performance lubricating grease based on special heat resistant ingredients and additive package. Grease is suitable for long term or lifetime lubrication of plain, ball and roller bearing operating at normal to medium loads under high temperature conditions and to lubricate Rubber O-Rings. It is non-ageing and structurally very suitable grease. It is resistant to hot and cold water and mild presence of alkaline or acid atmosphere. It also protects against corrosion and wear and it is pumpable through centralized lubrication systems. It is pressure resistant and the NS-G version has very good load carrying capacity.

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 No 1419 "List of Proprietary Substances and Nonfood Compounds". Product contains only substances permitted under US 21 CFR 178.3570, 178.3620 and 182 for use in lubricants with incidental food contact.

SYG-990 Silicon Grease is capable of withstanding high temperature in the range of -60°C to 250 on continuous operation. It performs excellently at Dm n factors up to 100,000 and satisfactorily at Dm n factors up to 200,000.

Application

SYG-990 Silicon Grease is recommended for all bearings which have to be operated under high thermal stresses such as in paint curing ovens. Also for hot air blower fan bearings in textile, plastics, wood working and food industries. They work well in steam heated calendar and drying cylinder bearing with normal re-lubrication intervals in paper, textile and plastic industries. For bearings working at temperatures up to 150°C and normal operating conditions, it can be used for life time lubrication. Also recommended for bearings

operating in slightly acidic or alkaline atmosphere e.g. in textile machinery, tanneries, phosphatizing equipment or immersion baths which generate aggressive fumes. SYG-990 SILICON GREASE can be used to lubricate Rubber O-Rings and Seals. Using it during installation helps protect an O-ring from damage by abrasion, pinching, or cutting. It also helps to seal the O-Ring properly, speeds up assembly operations, and improves automated assembly.

Typical Properties

SYG-990 Silicon Grease	1	2	3
Color	Creams White	Creams White	Creams White
Drop Point °C ASTM D 566	None	None	None
NLGI Grade	1	2	3
Worked Penetration 60/60 strokes ASTM D217	310-340	265-295	220-250
Water Resistant up to 90°C DIN 51807	Completely Resistant	Completely Resistant	Completely Resistant
Emcor Antirust test Rating IP 220	0	0	0
Four Ball weld Load, Kg ASTM D 2596	260	260	260
Temperature °C	-60 to 250	-60 to 250	-60 to 200

Available Packs

- 5, 18, 180 Kg.
- 50,100, 200 gram tubes

Remarks

Bearing should only be filled half way for optimum results. Before initial filling, thoroughly remove the left-over grease and then clean the bearing. Do not mix with other lubricating grease

* 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.

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Synthetic Food Grade Silicone Grease
Product Name SYG 990/Silicon Grease
Supplier Petrelplus Inc.
One World Center, Tower One, 9TH Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.
Call # +91 22 6216 7072
(Monday to Friday)
Cell # +91 93522 25457
marketing@petrelplus.com
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2. COMPOSITION

Polydimethylsiloxane, Fumed Silica

3. HAZARDS IDENTIFICATION

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

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 :

NLGI Grade	1 to 3
Four ball weld load	260
Temperature Range	-60 to 250

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 INFORMATION

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

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