

SYG-990/SSFG

Semi-Synthetic Food Grade Grease

Product Description

SYG-990/ SSFG grease is high performance grease specially blended for the lubrication of machinery used in food and beverage Processing and packaging industry. It is based on an Aluminum Complex thickener, semi-synthetic fluid and selected additives chosen for their ability to meet the stringent requirements of the food industry.

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.

They do not contain any natural products derived from animals, nuts or genetically modified organisms (GMOs). It is suitable for use where vegetarian and nut-free food is prepared and do not promote the growth of bacteria or fungal organisms.

Applications

- Enclosed Industrial Gear boxes.
- Automatic, centralized lubrication systems.
- Rolling element and plain bearings
- Joints, linkages and slides
- Suitable for a wide range of applications including roller element bearings
- It may also be used as protective anti-rust films and as release agents on gaskets & seals of tank closures

Features/Benefits

- Excellent Water Resistance.
- Excellent Oxidation and Mechanical Stability.
- Excellent Corrosion Protection.
- Excellent Adhesive properties.
- Has Neutral odor and taste.
- Excellent Extreme Pressure property.

Seal and Paint Compatibility

Compatible with the elastomers, gaskets, seals and paints normally used in lubrication systems employed in the food processing and packaging industries.

Technical Data

PROPERTIES	Value	Value	Value	Value	Value	Value
NLGI GRADE	3	2	1	0	00	000
Appearance	Off-White	Off-White	Off-White	Off-White	Off-White	Off-White
Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex
Base Oil Type	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO
Penetration, Worked 60X	240	280	330	370	410	420
Dropping Point, °C	275+	275+	225	200	NA	NA
Pumpability	Fair	Fair	Fair	Good	Very Good	Very Good
Temperature range	-40 to 250 °C	-40 to 250 °C	-40 to 250 °C	-40 to 250 °C	-40 to 250 °C	-40 to 250 °C
Base Oil Viscosity @ 40 °C	32	32	32	32	32	32
EP and Wear Protection						
Four-Ball Wear, Scar Dia, mm, max.	0.4	0.4	0.4	0.4	0.4	0.4
Four-Ball EP, Weld Load, ASTM D 2596, kg.	400	400	400	400	400	400
Four-Ball EP, Load Wear Index	45	45	45	45	45	45
Water Washout, ASTM D 1264, 79 °C, wt. %, max	5.5	5.5	5.5	5.5	5.5	5.5
Evaporation, ASTM D 972, % at 177 °C	1.5	1.5	1.5	1.5	1.5	1.5

Available Packs

50, 100, 200 Grams Tube

1, 5, 18, 50, 180 Kg

Shelf Life: 36 Months from manufacturing month.

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. *All related specifications are meets or exceeds.

PETRELPLUS INC.

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MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Synthetic Food Grade Grease
Product Name SYG 990 SSFG
Supplier Petrelplus Inc.
One World Center, Tower One, 9TH
Floor, Senapati Bapat Marg, Lower
Parel, Mumbai-400013, Maharashtra.
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2. COMPOSITION

1-Decene, Homopolymer, Hydro
genated Aluminum Complex thickener Proprietary
additives.

3. HAZARDS IDENTIFICATION

Not classified as hazardous. Other Hazards:

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:

PERSONAL PROTECTION

Respiratory Protection:

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	3-000
Soap Type	Aluminum Complex
Color	off White
Penetration	240-420
Dropping Point, ° C.	200 to 275+

10. STABILITY AND REACTIVITY HAZARDOUS REACTIONS

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 2nd substance with exposure limit is: Notation 2

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