

# SYG-990 / ALFG-HT

## Synthetic Food Grade Grease

### Product Description

SYG-990/ ALFG-HT grease is high performance extreme pressure 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, 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 gearboxes
- automatic, centralized lubrication systems
- plain and rolling element bearings
- enclosed industrial gearboxes
- automatic, centralized lubrication systems
- rolling element and plain bearings
- joints, linkages and slides
- suitable for a wide range of applications including roller element bearings
- may also be used as protective anti-rust films and as release agents on gaskets & seals of tank closures

### Features and Benefits

- excellent water resistance
- excellent oxidation and mechanical stability
- excellent corrosion prevention characteristics
- excellent adhesive properties
- neutral odor and taste
- excellent in extreme pressure

### Seal and Paint Compatibility

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

### Available Packs:

- 50,100,200 Grams tube
- 400 gram cartridge
- 1, 5, 18, 180 Kg.

## Technical Data

PROPERTIES	Value	Value	Value	Value	Value	Value
<b>NLGI GRADE</b>	3	2	1	0	00	000
<b>Appearance</b>	Creamy white	Creamy white	Creamy white	Creamy white	Creamy white	Creamy white
<b>Thickener Type</b>	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex
<b>Base Oil Type</b>	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO
<b>Penetration, Worked 60X</b>	240	280	330	370	410	420
<b>Dropping Point, °C</b>	295+	295+	225	200	NA	NA
<b>Pumpability</b>	Fair	Fair	Fair	Good	Very Good	Very Good
<b>Temperature range</b>	-50 to 300 °C	-50 to 300 °C	-50 to 300 °C	-50 to 300 °C	-50 to 300 °C	-50 to 300 °C
<b>Base Oil Viscosity @ 40 °C</b>	32	32	32	32	32	32
<b>EP and Wear Protection</b>						
<b>Four-Ball Wear, Scar Dia,mm, max.</b>	0.4	0.4	0.4	0.4	0.4	0.4
<b>Four-Ball EP, Weld Load, ASTM D 2596, kg.</b>	400	400	400	400	400	400
<b>Four-Ball EP, Load Wear Index</b>	45	45	45	45	45	45
<b>Water Washout, ASTMD 1264, 79 ° C, wt. %, max.</b>	5.5	5.5	5.5	5.5	5.5	5.5
<b>Evaporation, ASTM D 972, % at 177 ° C</b>	1.5	1.5	1.5	1.5	1.5	1.5

**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.

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** SYG 990 / ALFG-HT  
Synthetic Food Grade Grease

**Company Identification** Petrelplus Inc.

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Floor, Senapati Bapat Marg, Lower  
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**2. COMPOSITION/ INFORMATION ON INGREDIENTS**

1-Decene, Homopolymer, Hydrogenated 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 MEASURES**

Foam, carbon dioxide or dry power.

**6. ACCIDENTAL RELEASE MEASURES**

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. HANDLING AND STORAGE**

**Storage1:** 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 CONTROLS/PERSONAL PROTECTION**

Exposure Standard: The substance with exposure limit is:

Notation 1:Exposure Standard:

**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. PHYSICAL AND CHEMICAL PROPERTIES**

NLGI GRADE	2
Soap Type	Aluminum Complex
Colour	Off White
Penetration	280 ASTM D 217
Dropping Point, ° C.	295+ ASTM D 2265

**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

2nd substance with exposure limit is : Notation 2: