

# SYG-3990 ENCLOSED GEAR LUBRICANT

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## Product Description

SYG-3990 retains itself like grease yet flows like oil therefore the descriptive term semi-fluid is used. It is recommended for the lubrication of cams, bearings and grease lubricated gears especially where excessive leakage is a problem.

SYG-3990 contains a blend of polymer and tackifier for extra adhesive properties to prevent drip or leak.

This product is manufactured using high special paraffin base oil thickened with aluminum complex soap with Extreme Pressure additives and anti-rust additives.

The polyester or nylon thread is heated in the texturing machine until it becomes just malleable. In this state, it is drawn and twisted, using a friction unit. Subsequently, the thread is cooled and the twist reversed, which creates the crimping. At the end of this continual process, the textured yarn is wound at between 700 and 1,500 m/min. depending on the material and thread thickness.

## 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 slide.
- 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.

## Benefits

- Excellent water resistance
- Excellent oxidation and mechanical stability
- Excellent corrosion prevention characteristics
- Excellent adhesive properties
- Neutral odor and taste
- **Viscosity Range at 29.5°C 14000-15000**

➤ **Remarks**

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

## Typical Properties

PROPERTIES	Value	Value	Value	Value	Value
NLGI GRADE	3	2	1	0	00
Appearance	Off-white	Off-white	Off-white	Off-white	Off-white
Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex
Base Oil Type	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO	SYNTHETIC PAO
Penetration, Worked 60X	240	280	330	370	410
Dropping Point, °C	275+	275+	275+	270+	270+
Pump ability	Fair	Fair	Fair	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
Base Oil Viscosity @ 40 °C	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
Four-Ball EP, Weld Load, ASTM D 2596, kg.	400	400	400	400	400
Four-Ball EP, Load Wear Index	45	45	45	45	45
Water Washout, ASTM D 1264, 79 ° C, wt. %, max.	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

**Available Packs: 18 and 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.

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product** SYG-3990 ENCLOSED GEAR LUBRICANT  
**Supplier** PETRELPLUS INC.  
One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
Call # +91 22 6216 7072  
(Monday to Friday)  
Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

## 2. COMPOSITION

No harmful substances. Composition of Synthesized hydrocarbon base fluid, Aluminum Complex thickener and proprietary additives.

## 3. HAZARDS IDENTIFICATION

**FIRE** -Flammable at high temperature.  
**HEALTH**  
Eye contact -May cause mild irritation to the eyes upon direct contact.  
Skin contact -Prolonged contact may defat the skin or can cause dermatitis.  
Inhalation -hazards.  
Ingestion -Harmful if swallowed.

## 4. FIRST-AID MEASURES

Inhalation -Remove person to fresh air. Seek medical help if discomfort persists.  
Ingestion -Do not induce vomiting. Seek medical support.  
Skin Contact -Immediately flush skin with plenty of water for at least 15 minutes.  
Eye Contact -Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

## 5. FIRE-FIGHTING METHODS

Extinguishing media -Use dry chemical powder or carbon di – oxide or foam.  
Special protective equipment -Positive pressure self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURE

Personal protection - Adequate ventilation, gloves, goggles, overalls and boots.  
Environmental precautions - Avoid entry into water courses.  
Clean up method - Absorb on inert material.

## 7. STORAGE AND HANDLING

Handling - Impervious gloves & eye protection ensure good ventilation. Keep away from source of ignition.  
Storage - Store in a cool & dry place.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection - Not required under normal conditions.  
Skin/hand protection - Impervious gloves, overalls, and boots.  
Eye protection - Use Goggles

## 9. TYPICAL PROPERTIES

Soap - Aluminum Complex  
Color - Off- White  
NLGI - 00 to 3  
Drop point - more than 270

## 10. STABILITY AND REACTIVITY

Stability - Stable  
Conditions to avoid - Excessive temperatures  
Materials to avoid - Strong oxidizers  
Hazardous decomposition products - Oxides of carbon and nitrogen

**11. TOXICOLOGICAL INFORMATION**

Skin contact	- Possible irritation
Eye contact	- Possible irritation
Inhalation	- Not applicable
Ingestion	- Irritation. May cause lung damage.
Long term effect	- Not known

**12. ECOLOGICAL INFORMATION**

Mobility	- Mobile
Degradation	- Low
Accumulation	-Not expected
Short- & Long-Term effect	- Water pollutant

**13. DISPOSAL CONSIDERATIONS**

Dispose off according to local and national regulations.

**14. TRANSPORT INFOMRATION**

CPL	- Not applicable
IMO	-Not applicable

**15. REGULATORY INFORMATION**

Symbol(s)	-Not applicable
Phrase(s)	- Not applicable
Phrase(s)	- Not applicable

**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.