

# SYG-150/GREASE SS

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## Product Description

SYG-150 GREASE SS is based on synthetic hydrocarbon oil, mineral oil and a special lithium soap. Special additives ensure optimum oxidation resistance as well as protection against wear and corrosion.

## Applications

SYG-150 GREASE SS can be used for long-term or lifetime lubrication of rolling bearings at operating temperatures between 70 and 110 °C. For rolling bearings with a high degree of sliding friction, e.g. – tapered roller bearings – cylinder roller bearings – spherical roller bearings or for-life lubricated deep groove ball bearings and rolling bearings, examples like,

- Paper-making machines (dry section)
- Textile machines (dry section)
- Electric motors
- Hot air blowers
- drying ovens
- Air separators in the base materials industry
- Generators in wind power plants or rolling bearings in vehicle components
- Clutch bearings
- Generator bearings
- Water pump bearings
- Fluid fan bearings.

## Benefits

- Suitable for long term Lubrication of plain, ball and roller bearings.
- High Structural Stability.
- Provides good protection against corrosion and wear.
- They are Pressure resistant grease.
- Good load carrying capacity.

## Application notes

SYG-150 GREASE SS is applied by means of spatula, brush or grease gun. For application via automatic lubricating systems, pump ability should be checked beforehand. Prior to series application we recommend testing the compatibility of the lubricant with the materials in contact.

## Typical Properties

Parameters	Test Method	Specifications
Color		Yellow
Thickener		Special lithium soap
Type of oil		Synthetic oil hydrocarbon
Worked penetration, upper limit value, 25°C	DIN ISO 2137	295 x 0.1 mm
Worked penetration, lower limit value, 25°C,	DIN ISO 2137	265 x 0.1 mm
Density at 20 °C		approx. 0.9 g/cm <sup>3</sup>
Kinematic viscosity, 40 °C	ASTMD- 445	approx. 120 mm <sup>2</sup> /s
Shear viscosity at 25°C, shear rate 300 s- 1, equipment: rotational viscometer, upper limit value 6		6 000 mPas
Shear viscosity at 25 °C, shear rate 300 s- 1, equipment: rotational viscometer, lower limit value 3		3000 mPas
Drop point, DIN ISO 2176	DINISO 2176	>= 250°C
Speed factor (n x dm)		approx.1000mm/min
Testing of lubricating greases on FAG FE9 rolling bearing tester, speed: 3000 min-1, axial load: 1500 N, temperature: 150 °C, service life F50	DIN 51821	>= 100 h
Shear viscosity at 25°C, shear rate 300 s- 1, equipment: rotational viscometer, upper limit value		6000 mPas
Shear viscosity at 25 °C, shear rate 300 s- 1, equipment: rotational viscometer, lower limit value,		3000 mPas

**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. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product  
Supplier**

**SYG-150 GREASE SS  
PETRELPLUS INC.**

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## 2. COMPOSITION

Composition of high-performance Synthetic Hydrocarbon, Special Lithium thickener and Proprietary additives.

## 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 powder.

## 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

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.

Storage - Store in delivery packs in a cool & dry place.

## 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	-Yellow
Drop Point °C	- (>= 250)
Worked penetration, °C	- (-20 °C to 300°C)
NLGI	- 265-295

## 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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