

SYG-1080

SYNTHETIC WIDE TEMPERATURE RANGE GREASE WITH PTFE

Product Description

SYG-1080 is high-performance grease, which combines a synthesized hydrocarbon base fluid with a lithium complex soap thickener. The thickener system provides a high dropping point, excellent resistance to water wash, and a tenacious structural stability. The unique physical properties of the synthetic base oil, combined with selected additives, provide outstanding protection against wear, rust, corrosion, and high-temperature degradation. The wax-free feature of the synthetic base oil allows for low-temperature mobility/ pumpability and very low starting and running torque values. Also, the traction property of the synthetic base fluid is considerably lower than mineral oil, allowing for temperature reductions in the load zone of rolling element bearings.

APPLICATIONS

SYG-1080 is recommended for aviation applications which need a lubricant that can perform normal functions yet go far beyond in terms of high and low temperature and long-life performance. It is NLGI Grade 2 grease having the cold-temperature pumping resistance of most mineral oil NLGI Grade 0 greases. It is true wide-temperature, multi-service grease. SYG-1080 lubricating grease developed for plastic components. Automobiles, electrical appliances, precision equipment, and office equipment, can be used with plastic-on-plastic, metal-on-metal, or plastic-on-metal friction parts.

Features and Benefits

SYG-1080 is synthetic grease provides these advantages when compared with mineral Oil greases intended for similar service:

- * Operating range of - 60 ° C.(76° F.) to + 225 °C + (437 ° F).
- * Excellent resistance to rust, corrosion, and oxidation
- * Outstanding structural stability in the presence of water
- * Excellent wear protection under heavy loads and high temperatures
- * Power-saving capabilities
- * Extended relubrication intervals - Low volatility

PETRELPLUS INC.

One World Center, Tower One, 9th Floor, SenapatiBapatMarg, Lower Parel, Mumbai-400013
mail-marketing@petrelplus.com, www.petrelplus.com

☎ +91 93522 25457 📞 +91 95098 25457

Typical Properties

| NLGI GRADE | 3 | 2 | 1 | 0 | 00 | 000 |
|---|------------------------------------|---------|---------|---------|---------|---------|
| Soap Type | Lithium Complex with Synthetic Oil | | | | | |
| Structure | Smooth, Slight Tack | | | | | |
| PenetrationASTMD217 | 220-250 | 265-295 | 310-340 | 355-385 | 400-430 | 445-475 |
| Dropping Point, ° C,ASTMD2265 | 242 | 242 | 225 | NA | NA | NA |
| Base Oil Viscosity @40° C | 50 | 50 | 50 | 50 | 50 | 50 |
| Base Oil Viscosity @100 °C | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| EP and Wear Protection | | | | | | |
| Four-Ball EP, Weld Load, ASTM D 2596,kg., N | 4500 | 4500 | 4500 | 4500 | 4500 | 4500 |
| Four-Ball EP, Load Wear Index | | | | | | |
| Corrosion Prevention, ASTM D 1743 | Pass | Pass | Pass | Pass | Pass | Pass |
| EMCOR/SKF Water Wash Test, IP 220 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Wash out, ASTM D1264 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |

Available Packs: - 5, 18, 50 and 180 Kg.

Shelf Life – 36 Months from the manufacturing.

*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 Name SYG 1080 SYNTHETIC WIDE TEMPERATURE RANGE GREASE with PTFE
Supplier Petrel plus Inc
**One World Center, Tower One,
9TH floor, Senapati Bapat Marg
Lower parel** Mumbai-400064, Maharashtra.
Call # +91 22 6216 7072
(Monday to Friday)
Cell # +91 93522 25457
marketing@petrelplus.com
www.petrelplus.com

2. COMPOSITION

Synthesized hydrocarbon base fluid with a lithium complex soap thickener with PTFE

3. HAZARDS IDENTIFICATION

Not classified as hazardous. Other

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:

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 wellventilated 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:: | 0 |
| Drop point °C: | 240 |
| Penetration: | 355-385 |
| Structure : | Smooth, Slight Tack |
| Base Oil Viscosity @40°C: | 50 |
| Base Oil Viscosity @100°C: | 7.9 |

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