

SYF 1740 SYNTHETIC REFRIGERATION [PAG] COMPRESSOR FLUID

Product Description

SYF 1740 is a high-performance synthetic compressor refrigerant oil based in a proprietary PAG (polyoxyalkylene glycol) + additive blend. The product exhibits excellent extreme temperature properties coupled closely with outstanding oxidation resistance. Currently available lubricants often compromise on compressor requirements, for example reciprocating units using automotive crankcase oils formulated to MIL specifications can suffer from heavy carbon and ash deposits on valves are formulated solely for compressors.

Benefits

- Increased life of the compressor and its parts.
- Machine and plant downtime is greatly reduced.
- Compressor reliability, productivity and effectiveness increases dramatically.
- Extended drain intervals.
- Lower machine maintenance repair and replacement costs.

Recommended Usage

1. Liquefied petroleum gases such as propane and butane.
2. Liquefied natural gases such as methane and ethane.
3. Hydrocarbon chemical gases such as ethylene, propylene and butylene.
4. Chemical gases such as ammonia, vinyl chloride and butadiene.
5. Air-conditioning systems intended for the refrigerant r134a & HFO refrigerant R1234yf.

Typical Properties

SYF 1740	32	46	68	100	120	150	185	220	Test Method
Viscosity Index	181	181	184	204	210	219	223	236	ASTM D 2270
Viscosity, Cst @ 40°C	32	46	68	100	120	150	185	220	ASTM D 445
Viscosity, Cst @ 100°C	6.9	9	12.5	18.4	21.8	27.2	32.8	40.2	ASTM D 445
Pour Point, °F (°C)	-45	-33	-30	-36	-36	-33	-33	-33	ASTM D 97
Flash Point, °F (°C)	260	260	260	280	290	290	286	286	ASTM D 92
Copper Strip Corrosion, 3 hrs. @ 212°F/100°C	1A	1A	1A	1A	1A	1A	1A	1A	ASTM D 130
4-Ball Wear, 40kg, 1 hr., 1800 RPM, (mm)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	ASTM D 2783
Weld Point, kg	130	130	130	130	130	130	130	1301	ASTM D 2783
Evaporation Loss, %, 300°F/149°C, 73 hrs.	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	ASTM D 2878
Specific Gravity	1.02	1.02	1.02	1.03	1.03	1.04	1.04	1.04	ASTM D 941
Ferrous Metal Corrosion (Rust Test)									
Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	ASTM D 665A
Synthetic Sea Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	ASTM D 665B
Foam Tendency (Sequence I, II, III)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	ASTM D 892

PETRELPLUS INC.

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Available Packs: 5, 20, 50 and 210 Litres.
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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product SYF 1740 PAG Synthetic Refrigeration Compressor Oil
Supplier PETRELPLUS INC.
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2. COMPOSITION

PAG (polyoxyalkylene glycol), 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

Flash Point °C - >260
Viscosity @ 40 °C, mm/s² - 32 to 220
Viscosity @ 100 °C, mm/s² - 6.9 to 40.2

Material Safety Data Sheet

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.

DISCLAIMER/USER'S RESPONSIBILITY: PETRELPLUS INC. Provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriate use.

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