

LYCRA COOLANT SERIES

SYF-525/532/546

Product Description

LYCRA COOLANT SERIES is designed to meet the needs of rotary and reciprocating industrial Compressors. The product exhibits excellent high 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, LYCRA COOLANT on the other hand, is formulated solely for compressors.

Application

- This Lycra Coolant is highly recommended to use in following rotatory compressors.
- Atlas Copco
- Comp Air
- Gardner-Denver
- Kaeser
- Quincy
- Sullair
- This allows you the opportunity to service all of your rotary compressor needs with one lubricant – Lycra Coolant.

Advantages

- Reduce carbon formation and the risk of explosion, and increase safety
- Virtually eliminate varnish and sludge deposits, ensuring that items such as oil/air separators in rotary. Compressors function efficiently at all

- Provide better demulsibility, which is needed for rapid and complete water separation (this is particularly important for oil flooded compressors, where condensate can accumulate in oil receivers).
- Extend oil drainage intervals up to 8000 hours or 12 month's operation
- Outstanding operating temperatures range which will affect operating economics in compressor down time and lubricant utilization.
- Good compatibility with elastomers used as seals in reciprocating compressors.
- Reduce oil consumption and carry over by virtue of their low volatility and good lubrication properties times.
- Maintain the high efficiency of reciprocating compressors by significantly reducing valve deposits.
- Reduce maintenance costs by reducing wear and deposits associated with the use of mineral oils, savings on replacement parts and labour can be achieved.
- Improve oil receiver and crankcase performance by virtue of their low foaming properties.

Benefits

- Elimination of Carbonaceous and Lacquer deposits.
- Low and high temperature stability (-50 to 270+°C).
- Lower coefficient of friction.
- Compatibility with conventional seal materials.
- Less maintenance and down time.
- Greater biodegradability compared to petroleum products.

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

Properties	Test Method	SYF-525	SYF-532	SYF-546
ISO Viscosity Classification	ASTM D2422	25	32	46
Viscosity Index	ASTM D2270	178	179	176
Viscosity, cSt	ASTM D445			
40°C		24.6	33.2	47
100°C		5.6	7	9
Pour Point, °C	ASTM D97	-52	-52	-51
Flash Point, °C	ASTM D92	260	270	271
Specific Gravity	ASTM D941	0.98	0.99	0.99
Copper Strip Corrosion, 3 hrs. @ 100°C	ASTM D130	1A	1A	1A
Auto-ignition Temperature, °C	ASTM E659	378	383	386
Foam Tendency (Sequence I, II, III)	ASTM D892	Nil	Nil	Nil
Ferrous Metal Corrosion (Rust Test)				
a). Distilled Water	ASTM D665A	Pass	Pass	Pass
b). Synthetic Sea Water	ASTM D665B	Pass	Pass	Pass
4-Ball Wear, 40kg, 1 hr., 1800 RPM, (mm)	ASTM D2783	0.76	0.76	0.76
Weld Point, kg	ASTM D2783	130	130	130
Total Acid Number	ASTM D664	0.04	0.04	0.04
pH	ASTM D664	8.5	8.5	8.5
Evaporation Loss, %, 149°C, 73 hrs.	ASTM D2878	0.48	0.48	0.48
High Pressure Oxidation Test (Hr.)	ASTM D2272	18	18	18
Specific Heat, cal/gm/°C, @88°C		0.502	0.502	0.502
Thermal Conductivity, cal/(cm) (sec.) (°C)				
25°C		3.64	3.64	3.64
65°C		3.52	3.52	3.52
95°C		3.44	3.44	3.44
Coefficient of Expansion, %/°C		0.074	0.074	0.074

Available Packs: 5, 20, 50 & 210 Ltr

Shelf Life – 36 Months from the 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.

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

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product LYCRA COOLANT REFRIGERATION
Supplier Petrelplus Inc. One World Center,
 Tower One, 9TH Floor, Senapati 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

Synthetic PAG and Polyol Ester blend 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 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

Storage
 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: 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 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. TYPICAL PROPERTIES:

Viscosity Index	ASTM D2270	178 to 179
Viscosity, cSt		
40°C	ASTM D445	25 to 46
100°C	ASTM D445	5.6 to 9
Pour Point, °C	ASTM D97	-51 to -52
Flash Point, °C	ASTM D92	>260

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 labeling67/548

Not classified as hazardous.EC Risk Phrases

Not classified as hazardous.Other Hazardous

EC Safety Phrases

Not classified as hazardous

according to EC Directives

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.

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