

SYF 1500 SYNTHETIC BREATHING AIR COMPRESSOR LUBRICANTS

(For Screw Rotary and Reciprocating Air Compressors)

Product Description

SYF-1500 series oils are based on the highest quality synthesized hydrocarbon fluids available. This synthetic PAO base fluid is designed to meet the needs of rotary screw and reciprocating industrial breathing air 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, on the other hand, are formulated solely for compressors.

Applications

Suitable for Screw Rotary and Reciprocating Air Compressors.

Benefits

- Reduces carbon formation and the risk of explosion, and increase safety.
- Virtually eliminates varnish and sludge deposits, ensuring that items such as oil/air separators in Rotary Compressors function efficiently at all times.
- Provides better demulsibility, which is needed for rapid and complete water separation (this is particularly important for oil flooded compressors, where condense can accumulate in oil receivers).
- Extend oil drainage intervals up to 10,000 hours or 12 month's operation.
- Outstanding operating temperature range which will affect operating economics in compressor down time and lubricant utilization.
- Good compatibility with elastomers used as seals in reciprocating compressors.
- Reduces oil consumption and carry over by virtue of their low volatility and good lubrication properties.
- Maintains high efficiency of reciprocating compressors by significantly reducing valve deposits.
- Reduces maintenance costs by reducing wear and deposits associated with the use of mineral oils, thus savings on replacement parts and labor can be achieved.
- Improves oil receiver and crankcase performance by virtue of their low foaming properties.

Typical Properties

PROPERTIES	12	32	46	68	100	150	220	320	Test Method
Kinematic Viscosity cSt @ 40° C	12	32	46	68	100	150	220	320	ASTM D-445
Kinematic Viscosity cSt @ 100° C	3.3	6.1	7.8	10.6	15	20	22	34	ASTM D-445
Demulsibility ml.	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0	ASTMD1401
Neutralization Number mg / KOH/g	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Foaming sequence 1 tendency/ stability ml	20/0	20/0	20/0	20/0	20/0	20/0	20/0	20/0	ASTMD-692
Flash Point °C	262	264	254	253	260	254	290	300	ASTMD-92
Fire Point °C	278	280	280	284	285	315	325	325	ASTMD-92
Pour Point °C	-60	-60	-60	-57	-50	-43	-25	-40	ASTMD-97
Evaporation loss 22 hours at 149°C. %	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	ASTMD-972
Specific gravity at 25°C.	0.8352	0.8423	0.8465	0.8478	0.8553	0.8607	0.954	0.987	
Conradson carbon deposits %									
Part 1: after aging without Fo2os %	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	DIN-51352
Part 2: after aging with Fo2o3 (Pneurop) %	2.5	2.5	2.5	2.5	2.2	2.4	2.4	2.4	
Viscosity index	149	142	143	143	143	147	150	152	
4 ball wear test (40 kg.load for 1 hour)- scar diameter mm	0.92	0.92	0.92	0.92	0.86	0.88	0.86	0.88	
Weld load kg	135	135	135	135	135	140	140	140	

Available Packs: 1, 5, 20, 50, 210 Ltr.

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 SYNTHETIC COMPRESSOR OIL
Supplier PETRELPLUS INC.
 One World Center, Tower One, 9th Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.
 Call # +91 22 6216 7072
 (Monday to Friday)
 Cell # +91 93522 25457
marketing@petrelplus.com
www.petrelplus.com

2. COMPOSITION

A composition of Synthetic Base oil and performance-based 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

Viscosity @ 40°C - 12 TO 320
 Flash Point, °C, COC, Min - 253 TO 300
 Pour Point, °C, Max - (-25 TO -60)
 Viscosity Index - 142 TO 152

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 INFORMATION

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.