

## **SYF-690 POE CHAIN OIL** SYNTHETIC HI-TEMPERATURE PREMIUM CHAIN OIL (NEO POE)

### **Product Description**

SYF-690 POE CHAIN OIL is a high temperature lubricant which has been specifically formulated with synthetic polyol ester base stocks and synthetic fluids having unusually high temperature lubricating capability. Careful selection of additives results in a fluid which resists high temperature decomposition and prevents the formation of sludge or carbon normally produced by petroleum-based products. This results in longer equipment life, less maintenance, better efficiency, while costly downtime is significantly reduced.

### **Applications**

- Chain drives control and conveyor chains at high temperature.
- Conveyor Chains operating under heavy loads and high temperatures.
- Excellent for stenter frame ovens, ceramics production and glass production.
- Slide ways, open bearings, drying and varnishing plants, stenters, and powder coating machines.
- Recommended for transmission chains for paint booths, paint curing ovens, dryers, paper manufacturing, plywood production etc.

### **Recommended Usage**

SYF-690 is excellent for high temperature applications with prolonged use at temperatures > 300 °C. It is particularly suited for applications in the canning and metal processing industries. It is equally recommended for paint curing ovens, paper manufacturing, and plywood production and can also be used as a bearing lubricant in high temperature environments in foundries.

### **Benefits**

- Excellent high temperature oxidation resistance.
- Superior thermal stability for prolonged lubricant life.
- Extremely low volatility/less lubricant consumption.
- Outstanding anti-wear properties/reduced chain drag.
- Minimal residue ensures a safe and clean workplace
- Extremely less lubricant consumption due to low evaporation.
- Being synthetic (Neo POE) oil, the chain remains clean due to low residue formation and carbonization.

## Typical Properties

SYF-690 POE Chain Oil	46	68	100	120	150	220
Base Oil	Synthetic POE	Synthetic POE	Synthetic POE	Synthetic POE	Synthetic POE	Synthetic POE
Kinematic Viscosity cSt @ 40°C, ASTM D 445	46	68	100	120	150	220
Kinematic Viscosity cSt @ 100°C, ASTM D 445	7.6	10	14.2	16.5	20	26
Viscosity Index, ASTM D 2270, (min)	131	131	145	148	154	150
4 Ball wear scar, Diameter, mm D-4172	0.4	0.4	0.3	0.3	0.3	0.3
Pour Point, °C, ASTM D 97 (max)	-40	-35	-33	-32	-32	-32
Flash Point, °C, ASTM D 92 (min)	292	292	293	293	293	296
Fire Point, °C ASTM D 92 (min)	312	312	313	313	313	316
Oxidation and corrosion stability test, 72 hrs. @ 400°F FTM Std. 791B	Pass	Pass	Pass	Pass	Pass	Pass

**Available Packs: 1, 5, 20, 50 and 210 Litres.**

**Shelf Life: 36 Months from 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-690 POE CHAIN OIL  
**Supplier** PETRELPLUS INC.

One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
 Call # +91 22 6216 7072  
 (Monday to Friday)  
 Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

**2. COMPOSITION**

No harmful substances. Composition of base oils 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**

Kinematic Viscosity @ 40<sup>o</sup>C - 46 to 220  
 Flash Point, <sup>o</sup>C - 292 to 296  
 Oxidation Stability - Pass  
 Corrosion Stability - Pass

**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.