

## SavSyn 4322

Synthetic Polyol Ester (POE) based lubricant for refrigeration compressor applications

### **DESCRIPTION:**

**SavSyn 4322** is a Synthetic Polyol Ester (POE) lubricant with an ISO VG 22 viscosity grade, formulated for optimal performance in air-conditioning and refrigeration systems. Engineered to work seamlessly with hydrofluorocarbon (HFC) refrigerant gases such as R410A, R134a, R407C, R404A, and R32, this lubricant delivers exceptional lubricity and thermal stability. SavSyn 4322 is tailored to offer excellent fluidity at low temperatures, making it ideal for systems requiring efficient heat transfer and reduced energy consumption. SavSyn 4322 provides superior anti-wear protection to critical metallic components, including steel and aluminium, thereby enhancing compressor durability and operational efficiency. It is designed for working on a broad operating temperature range and maintaining consistent performance in demanding environments, making it a reliable choice for modern refrigeration and air-conditioning applications.

### **APPLICATION:**

**SavSyn 4322** is recommended for a wide range of refrigeration and air-conditioning systems, including:

- Rotary, scroll, and reciprocating compressors, ensuring versatility across various equipment designs.
- Split systems, packaged units, and variable refrigerant flow (VRF) systems using HFC refrigerants in residential and commercial air-conditioning.
- Cold storage facilities, food processing plants, and pharmaceutical refrigeration units requiring precise temperature control.
- Vehicle climate control systems utilizing HFC refrigerants, providing reliable lubrication under varying thermal loads.
- Applications where low-temperature performance and energy efficiency are critical, such as high-efficiency chillers and compact refrigeration units.

## SavSyn 4322

Synthetic Polyol Ester (POE) based lubricant for refrigeration compressor applications

### ADVANTAGES:

**SavSyn 4322** offer the following benefits:

- Minimizes wear on compressor system components like steel and aluminium, extending the life of compressors.
- Reduces frictional losses, optimizing system performance and thereby lowering energy costs.
- Performs exceptionally well a broad temperature range, from sub-zero to high ambient conditions.
- Miscible with all HFC refrigerants over broad temperature range.
- Compatible with polymers like Nylon 6, PEEK, PBT, PET, Neoprene, NBR and Viton.

### TECHNICAL SPECIFICATIONS

PROPERTIES	ASTM TEST METHODS	TYPICAL VALUE
<b>Density @ 20°C, gm/cm<sup>3</sup></b>	ASTM D1298/4052	0.984
<b>Kinematic Viscosity @ 40°C, cSt</b>	ASTM D445/7042	23.65
<b>Kinematic Viscosity @ 100°C, cSt</b>	ASTM D445/7042	4.93
<b>Viscosity Index</b>	ASTM D2270	137
<b>Pour Point, °C</b>	ASTM D97	< -54
<b>Flash Point, °C</b>	ASTM D92	252
<b>Acid Value, mg KOH/g</b>	ASTM D974	<0.1

The above details are typical results under normal production conditions and could vary depending upon external factors.

The information provided herein is subject to change without notification depending upon change in specifications of the products.

We make no warranties other than the specifications of the product, express or implied, and hereby disclaim all express or implied warranties, including warranty of any recommendations, merchantability and fitness of the product for a particular purpose.

We shall not be liable for any direct, indirect, incidental, punitive or consequential damages unless otherwise agreed by us in writing.

### Storage:

Store the products indoors and avoid direct sunlight or heat. Please keep the container in closed condition always.

### Environment, Health and Safety

- Do not dispose the used oil to soil, drains and water. Dispose the used oil through authorized collection point
- This product is unlikely to present any safety & health hazard when properly used in the recommended application.
- Avoid contact with skin and eyes. After skin contact, wash with water and soap.

Rev.No.00 dtd 16th May. 2025