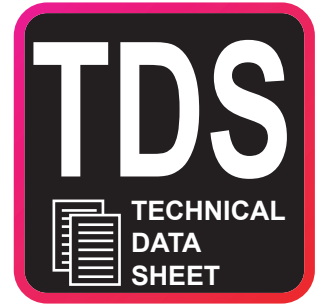




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## 100% SYNTHETIC POLYALCHILENGLYCOL (PAG) BASED

## LUBRICANTS FOR REFRIGERATING COMPRESSORS

# PAG LUBRICANTS

### DESCRIPTION

The polyalchilenglycol (PAG) lubricants series are **fully synthetic lubricants with high oxidation resistance features**, specifically developed for the **lubrication of rotary refrigerators compressors**, that need a very low freezing point and **very long drain intervals**.

### PROPERTIES

- Products with **superior features compared to traditional mineral-based lubricants**.
- **Maximum duration of exercise**, in order to extend the oil change intervals.
- Possible **use with the widest temperature range** (-30 °C to +50 °C).
- **No carbon deposits** in the hot spots of the compressor, thanks to the synthetic nature.
- **Excellent protection against rust, corrosion and wear** of the components.
- **Avoids the formation of foam**, to avoid the phenomenon of cavitation.

### APPLICATIONS

These lubricants are specifically suitable where the **compressor manufacturer suggest a fully synthetic lubricant with polyalkylene glycol base oils (PAG)**. These products are particularly also suggested in cases of **extreme temperature changes**, and when it is necessary to **maximize the life-service interval and consequentially minimize downtime and labor costs**.

### WARNINGS

The polyalkyleneglycol base oils (PAG) series makes these product **NON-compatible with conventional mineral- and synthetic-hydrocarbon based lubricants without polyalkylenglycols PAG**. Before the lubricant drain, it is necessary to thoroughly clean the circuit. In case of change in the nature of the lubricant, if possible wash with solvent the entire system, ensuring that there are no residues of the old lubricant or washing fluid before the new filling. Keep the product in a dry place in tightly closed containers.

AVAILABLE (MAINLY) IN THE FORMATS:



250 ML METAL CAN

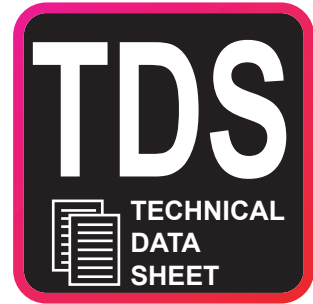
1 AND 5 LT IN PLASTIC

### SAFETY INFORMATION

Read and observe the safety warnings on the container label. For information on handling, transport, etc ..., refer to the Safety Data Sheet (SDS) relating to the product in question.



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**LUBRICANTS FOR REFRIGERATING COMPRESSORS**

**PAG  
LUBRICANTS**

**PAG (46 and 100) for HFO R-1234yf**


The PAG 46 and 100 version for HFO R-1234yf is based on special additivated and stabilized “**double end-capped**” polyalkyl glycols to meet the typical needs of refrigeration compressors. Given its nature, it is particularly suitable for use with refrigerants such as R-134a and R-1234yf.

**250 ML**



**METAL CAN**  
**52,5x52,5x160 MM ca.**  
**12x**

**1 LT**



**PLASTIC**  
**65 x 107 x 229 MM ca.**  
**12x**

**5 LT**



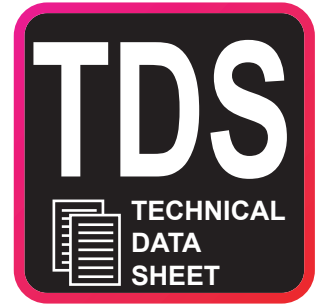
**PLASTIC**  
**186 x 131 x 288 MM ca.**  
**2x**

**AVERAGE PHYSICAL AND CHEMICAL FEATURES (Data are not specifications)**

ISO Viscosity Grade ISO 3448		46	68	100	150	220	46 (R-1234yf)	100 (R-1234yf)
Physical state at 20°C		Clear liquid, colorless, slightly odor						
Pour Point ASTM D 97	°C	-38	-35	-34	-34	-31	-45	-35
Flash Point COC ASTM D 92	°C	> 205	> 210	> 220	> 230	> 240	> 200	> 230
Density at 20°C	Kg/mc	990	990	990	1000	1000	985	1000
Solubility in water		Insoluble in water						
Kinematic Viscosity at 40°C	cSt	42-50	66-72	90-110	135-165	200-240	42-50	90-110
Kinematic Viscosity at 100°C	cSt	~ 9	~ 14	~ 20	~ 27	~ 39	~ 9	~ 20
Viscosity Index		186	190	195	210	220	210	210



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 LUBRICANTS FOR REFRIGERATING COMPRESSORS**

**COMPATIBILITY INDICATION BETWEEN REFRIGERANT GAS AND LUBRICANT**

Refrigerant gas		mineral based	PAG based	POE based	PAO based
R23	<b>HFC</b>				
R32					
R134a					
R404A					
R407C					
R410A					
R413A					
R417A					
R419A					
R422A					
R422D					
R427A					
R428A					
R437A					
R438A					
R507					
R508B					
R1234yf	<b>HFO</b>				
R170	<b>HC</b>				
R600					
R1270					
R717	<b>NH3</b>				
R744	<b>CO2</b>				
R22	<b>HCFC</b>				
R123					
R124					
R401A					
R401B					
R402A					
R402B					
R403B					
R408A					
R409A					
R414B					
R416A					
R11	<b>CFC</b>				
R12					
R13					
R13B1					
R113					
R114					
R500					
R502					
R503					

Non-binding indications - It is always advisable to follow the instructions of the manufacturers of the systems or suppliers of refrigerant gases.