



Extol 46

Premium Synthetic Refrigeration Oil

Fully Synthetic compressor oil for use with all common refrigerants

Benefits for your application

- One oil for many applications
- Suitable for R11, R12, R13b, R123a, R22, R134a, R404a, R408a, R410a, R413a, R717, plus others.
- Low maintenance costs due to extended oil change intervals and reduced oil consumption
- Easy compressor oil conversion due to neutral behaviour towards seals
- High efficiency of the refrigeration plant due to reduced oil deposits
- Low operating costs due to long service life of filters and oil separators
- Wide range of application with evaporating temperatures, in some cases down to -64°C*
- Meets NSF H1 requirements for use in the food-processing industry

Application

Extol 46 is a full synthetic hydrocarbon refrigeration lubricant that has been designed to function under severe service conditions.

Extol 46 has a very high viscosity index, contains no paraffin and are compatible with various fluorinated refrigerants, ammonia, methyl chloride and carbon dioxide. **Extol 46** is completely miscible with petroleum-based oils.

Extol 46 is a polyalphaolefin based oil that is not hygroscopic and is non-toxic.

This lubricant can also be used with natural hydrocarbon refrigerants like propane (R290), propylene (R1270) or butane (R600). Especially with these refrigerants, the solubility of the gas in the oil under operating conditions and the resulting drop in viscosity has to be taken into account.

Due to the synthetic base oil contained in **Extol PSR**, oil carryover into the refrigeration cycle is much lower than with conventional mineral oils, which helps to reduce oil consumption.

The viscosity of the oil remains constant for a long time, due to the fact that only a few highly volatile fractions are contained in the oil. Oil changes due to the increase in viscosity can be extended considerably. The base oil offers high chemical stability, the typical blackening of conventional mineral oils or deposits in the refrigeration cycle are prevented.

Experience gained in practice has shown that **Extol PSR** can be used for evaporating temperatures as low as -64°C depending on the operating conditions.

Description

Extol PSR lubricant has been specially formulated from fully synthetic base oil of the highest quality. They are free from paraffin and offer good cold flow properties. The base oils have high chemical stability and show a low tendency to evaporation.

Extol PSR lubricant is miscible with POE and other petroleum based fluids.

This lubricant can be used for refrigeration compressors in the food-processing industry, meets NSF H1 requirements.

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ISO Viscosity Grade	46
Color, aspect	colorless, clear
Density, DIN 51 757, at 20 °C, [g/cm ³], approx.	0.8323
Viscosity, DIN 51562, pt. 1, at 40 °C, [mm ² /s]	45.8
at 100 °C, [mm ² /s],	7.80
Pour point, DIN ISO 3016, [°C]	-64
Flash point, DIN ISO 2592, [°C]	266
Viscosity index, DIN ISO 2909	136
Moisture Content (PPM)	<30
Acid Number [mg KOH/gram]	0.11