

## Description

Synthetic POE base oil for compressors, for use in very low temperature applications, such as refrigeration, air conditioning and industrial refrigeration, wherever compressors use mainly HFC type cooling gases, which are environmentally friendly and are replacing the old HCFC's.

Its special formulation enhances its excellent lubricating performance, thermal stability and anti-corrosion protection.

They are used, in order of increasing viscosity, for saturated steam, re-heated steam and steam with a high degree of re-heating. Valid for general greasing, low loaded gears and other mechanical elements where high temperature conditions may occur.

They can be used as heat transfer fluids in the case of open-air thermal circuits.

## Properties

- Completely mixable with HFC gases, such as R134a.
- Low pour point.
- High viscosity index.
- High chemical and thermal stability.
- Wax free.
- Low flocculation point.

## Quality levels, approvals and recommendations

- DIN 51503 KD
- ISO 6743-3B-DRD
- It satisfies the requirements of manufacturers DANFOSS COMMERCIAL (scroll and reciprocating) for ISO 32, BITZER (screw), FRASCOLD (reciprocating), BLISSFIELD (reciprocating) for ISO 68 and DORIN (reciprocating), among others.

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 6. February 2021.

## Technical specifications

|   | UNIT              | METHOD      | VALUE |       |
|---|-------------------|-------------|-------|-------|
| ISO Grade   |                   |             | 32    | 68    |
| Viscosity at 100 °C   | cSt               | ASTM D 445  | 5.8   | 9.4   |
| Viscosity at 40 °C  | cSt               | ASTM D 445  | 32    | 66    |
| Viscosity index   |                   | ASTM D 2270 | 120   | 120   |
| Density at 20 °C  | g/cm <sup>3</sup> | ASTM D 1298 | 0.977 | 0.977 |
| Pour point  | °C                | ASTM D 97   | -46   | -39   |
| Flash point   | °C                | ASTM D 92   | 258   | 270   |
| TAN   | mg KOH/g          | ASTM D 974  | <0.05 | <0.05 |
| Water content   | ppm               | ASTM E 1064 | <50   | <50   |
| Miscibility at low temperatures<br>(10% lubricant in R-134) | °C                | Internal    | -43   | -26   |

The aforementioned characteristics are typical values and should not be considered product specifications.

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