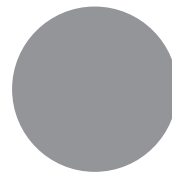


CASSIDA FLUID RF Series

Product Information

Synthetic lubricants for compressors used in ammonia refrigeration systems in the food industry



CASSIDA FLUID RF 46 and **68** are high performance fluids specially developed for use in ammonia refrigeration compressors in the food and beverage processing industry.

They are based on a careful blend of synthetic fluids chosen for their ability to meet the stringent requirements of this type of equipment in the food industry.

Registered by NSF (Class H1) for use where there is potential for incidental food contact. Produced according to FLT Quality Standards, in facilities where HACCP audit and Good Manufacturing Practice have been implemented and form part of the quality and hygiene management systems ISO 9001 and ISO 21469.

CERTIFICATIONS AND SPECIFICATIONS

- NSF H1
- Kosher
- Halal
- DIN 51501-1 (KAA / KC)



PERFORMANCE FEATURES

- Base fluids have an ability to provide superior lubrication under the majority of operating conditions
- Provide excellent control of deposits and sludge formation, particularly when used with ammonia. This permits extended oil drain intervals compared to mineral oil
- Excellent high temperature and oxidation stability
- Neutral odour and taste
- High viscosity index enables easy starting at low temperatures and good lubrication at elevated operating temperatures
- Good low temperature characteristics down to -40 °C
The formulation facilitates rapid separation from the refrigerant in the oil separator

APPLICATIONS

- Recommended for use in open and semi-open compressors, both screw and reciprocating types. They are designed for applications with ammonia (R717) where they offer an excellent performance under high and low evaporation temperatures.
- They can also be used with isobutane (R600a) and CO2 (R744). Use in this case after consultation of the respective compressor OEM only.

SEAL AND PAINT COMPATIBILITY

Compatible with the elastomers, gaskets, seals and paints normally used in food machinery lubrication systems.

HANDLING AND STORAGE

All food grade lubricants should be stored separately from other lubricants, chemical substances and foodstuffs and out of direct sunlight or other heat sources. Store between 0 °C and +40 °C. Provided that the product has been stored under these conditions we recommend to use the product within 5 years from the date of manufacture. Upon opening a pack, the product must be used within 2 years (or within 5 years of date of manufacture, whichever is the sooner).

TYPICAL CHARACTERISTICS (Typical for current production. Variations in these characteristics may occur.)

| | | | CASSIDA FLUID RF | |
|-----------------------|--------------------|-----------|------------------|--------|
| | | | 46 | 68 |
| Property | Test Method | | | |
| NSF Reg. No. | | | 145427 | 145428 |
| Colour | | | Colourless | |
| Density at +15 °C | kg/m ³ | ISO 12185 | 832 | 835 |
| Flashpoint | °C | ISO 2592 | 237 | 260 |
| Pourpoint | °C | ISO 3016 | -60 | -57 |
| Kin. Visc. at +40 °C | mm ² /s | ISO 3104 | 49 | 68 |
| Kin. Visc. at +100 °C | mm ² /s | ISO 3104 | 8.4 | 10.5 |
| Viscosity index | ISO 2909 | | 148 | 142 |



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As far as we know these information reflect the current state of knowledge and our research. They cannot, however, be taken as an assurance about the properties nor as a guarantee of the suitability of the product for the individual case in point. Before using our products the purchaser must, therefore, check the suitability and be satisfied that the output will be satisfactory. Our products are continually being up-dated. We reserve the right, therefore, to alter the information of this product information at any time and without prior announcement. We are specialized in developing products for extreme tribological problems in cooperation with end users. FUCHS LUBRITECH provides service and individual advice. Please contact us! E-Mail: cassida.lubricants@fuchs-lubritech.de