

## FM HYDRAULIC OIL Series

Hydraulic fluids for food and beverage processing equipment

### Performance Features

- The base fluid has been selected for its ability to provide good lubrication under variety of applications
- Good anti-wear and extreme pressure characteristics
- Good anti-oxidant properties
- Good air release and antifoam characteristics
- Good water separation characteristics
- Neutral odor and taste



Hydraulics



Roller bearings



Partner Programme



NSF registered

### Certifications and Specifications

- NSF H1
- NSF ISO 21469
- Kosher
- Halal
- DIN 51524 HLP
- ISO 6743-4 L-HM

### Description

FM HYDRAULIC OIL 32, 46, 68 and 100 are anti-wear multi-purpose lubricants, which are specially designed for use in the food and beverage processing and packaging industry. They are based on a careful blend of base fluids and selected additives chosen for their ability to meet the stringent requirements of the food and beverage industry. Certified by NSF for ISO 21469 and registered by NSF (Class H1) for use where there is potential for incidental food

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# CASSIDA Product Information



**LUBRITECH**  
Special Application Lubricants

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.

## Applications

- Hydraulic systems
- Hydrostatic gears
- Plain and anti-friction bearings
- General purpose lubrication including light duty gearboxes
- Circulating oil systems

## 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).

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# CASSIDA Product Information



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## Technical Data: FM HYDRAULIC OIL

<u>Characteristics</u>	<u>32</u>	<u>46</u>	<u>68</u>	<u>100</u>	<u>Unit</u>	<u>Test Method</u>
NSF Reg. No.	145433	144720	144721	145434		
Colour	Colourless to pale yellow	Colourless to pale yellow	Colourless to pale yellow	Colourless to pale yellow		
Density [+15 °C]	861	864	867	872	kg/m <sup>3</sup>	ISO 12185
Pourpoint	-12	-12	-9	-9	° C	ISO 3016
Kin. Visc. [+40 °C]	32	46	68	100	mm <sup>2</sup> /s	ISO 3104
Kin. Visc. [+100 °C]	5,7	7,1	9,0	11,5	mm <sup>2</sup> /s	ISO 3104
Viscosity index	115	112	107	106		ISO 2909
Operating temperatures	0 to +110	0 to +110	0 to +110	0 to +110	° C	LLS 134
short-term peak	-10/+120	-5/+120	-5/+120	-5/+120	° C	
FZG-Test A/8.3/90 Failure load stage	>10	>10	>10	>10		ISO 14635-1

LLS = LUBRITECH Laboratory Specification  
Typical for current production. Variations in these characteristics may occur.

As far as we know this information reflects the current state of knowledge and our research. It 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 their suitability and be satisfied that the output will be satisfactory. Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without prior announcement, unless otherwise provided in customer-specific agreements. With the publication of this product information sheet, all previous editions cease to be valid.

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!  
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