

# CASSIDA Product Information



**LUBRITECH**  
Special Application Lubricants

## FM HYDRAULIC OIL Series

Hydraulic fluids for food and beverage processing equipment



Roller Bearings



Hydraulics



NSF registered

### Description

FM HYDRAULIC OIL 15, 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.

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

### Certifications and Specifications

- NSF H1
- NSF ISO 21469
- Kosher
- Halal
- DIN 51524 HLP

### Performance Features

- The base fluid has been selected for its ability to perform well under a variety of applications
- Good anti-wear properties
- Good anti-oxidant properties
- Good air release and antifoam characteristics
- Excellent water separation characteristics
- Neutral odor and taste

# CASSIDA Product Information



**LUBRITECH**  
Special Application Lubricants

## 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 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 (32 °F) and 40 °C (104 °F). 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

Property	15	32	46	68	100	Unit	Test Method
NSF Reg. No.	133338	133345	133347	133350	146284		
Colour	Colorless to Yellow	Colorless to Yellow	Colorless to Yellow	Colorless to Yellow	Colorless to Yellow		
Density at 15 °C	852	859	866	869	872	kg/m <sup>3</sup>	ASTM D 4052
Flash Point	204 (400)	220 (428)	234 (453)	254 (489)	265 (510)	°C (°F)	ASTM D 92
Pour Point	-23 (-10)	-21 (-6)	-20 (-5)	-20 (-5)	-20 (-5)	°C (°F)	ASTM D 97
Kin. Visc. at 40 °C	15	32	46	68	100	mm <sup>2</sup> /s	ASTM D 445
Kin. Visc. at 100 °C	3.5	5.5	7.1	9	11.6	mm <sup>2</sup> /s	ASTM D 445
Viscosity Index	111	108	113	107	104		ASTM D 2270
Water Separability	40-40-0 (3)	40-40-0 (5)	40-40-0 (15)	40-40-0 (5)	40-40-0 (10)		ASTM D 1401

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: [Lubritech-US@fuchs.com](mailto:Lubritech-US@fuchs.com)