

# CASSIDA Product Information



**LUBRITECH**  
Special Application Lubricants

## FM GEAR OIL Series

Specialty gear fluid for use in food manufacturing equipment



Roller Bearings



Gears – enclosed



NSF registered

### Description

FM GEAR OIL 150, 220, and 460 are specialty extreme pressure, anti-wear gear oils which are specifically designed for use in the food and beverage canning industry.

It is based on a careful blend of 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 contact. Produced according to LUBRITECH 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
- NSF ISO 21469
- Kosher
- Halal

### Performance Features

- The base fluid has been selected for its ability to provide superior lubrication in a variety of applications
- Excellent extreme pressure properties
- Neutral odor and taste
- Good anti-oxidant properties. Resists the formation of deposits and sludge even at elevated temperatures, resulting in long equipment life

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## Applications

- Lubrication of enclosed gearboxes (worm, helical, bevel and spur) operating under normal or heavy shock-loading conditions
- Wide range of mechanical equipment like chain drives, oil lubricated bearings for mixers, blenders, sorting equipment and conveyors
- Also intended for use in equipment manufacturing food packaging

## Seal and paint compatibility

Compatible with the elastomers, gaskets, seals and paints such as poly-urethane and two part epoxy resin paints, frequently used on machinery and in lubrication systems employed in the food processing industry.

## 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 32 °F and 100 °F. Provided that the product has been stored under these conditions we recommend that the product be used 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 the date of manufacture, whichever is sooner).

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## Typical characteristics

Property	FM GEAR OIL 150	FM GEAR OIL 220	FM GEAR OIL 460	Unit	Test Method
NSF Reg. No.	133336	133354	146286		
Colour	Colourless	Colourless	Amber		
Density at +15 °C	877	879	880	kg/m <sup>3</sup>	ASTM D 4052
Flash Point	265 (510)	265 (510)	271 (520)	°C (°F)	ASTM D 92
Pour Point	-19 (-2)	-19 (-2)	-18 (0)	°C (°F)	ASTM D 97
Kin. Visc. (base oil) at +40 °C	150	220	460	mm <sup>2</sup> /s	ASTM D 445
Kin. Visc. (base oil) at +100 °C	16	21	38	mm <sup>2</sup> /s	ASTM D 445
Viscosity Index	111	113	126		ASTM D 2270
AGMA Grade	4	5	7		AGMA 9005
Water Separability	40-40-0 (10)	40-40-0 (10)	40-40-0 (15)		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: [cassida.lubricants@fuchsus.com](mailto:cassida.lubricants@fuchsus.com)