

# Product Information

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## CASSIDA FLUID GL Series

Synthetic gear lubricants for use in food manufacturing equipment

### Performance Features

- Resists the formation of harmful products of oxidation even at elevated temperatures
- Base oil has an ability to provide superior lubrication under all operating conditions
- Excellent EP properties make CASSIDA FLUID GL suitable for steel-on-steel and worm and phosphor-bronze wheel applications
- Neutral odour and taste
- High viscosity index resulting in minimum variation of viscosity with change in temperature



Gears - enclosed



Roller bearings



Partner Programme



NSF registered

### Certifications and Specifications

- NSF H1 & NSF ISO 21469
- Kosher
- Halal
- DIN 51506 VBL (GL 150, 220), VCL (GL 150)
- ISO 12925-1:2018 (CTPR)
- DIN 51517 CLP

### Description

CASSIDA FLUID GL 150, 220, 320, 460 and 680 are high performance, anti-wear gear oils specially developed for the lubrication of enclosed gears in food and beverage processing machinery. They are based on a careful blend of synthetic fluids and selected additives chosen for their ability to meet the stringent requirements of the food 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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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

- Lubrication of enclosed gearboxes used in the food industry
- Also intended for use in equipment manufacturing food packaging

## 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).

## Technical Data: CASSIDA FLUID

Characteristics	GL 150	GL 220	GL 320	GL 460	GL 680	Unit	Test Method
NSF Reg. No.	144689	144690	144691	144692	144693		
Color	Colorless, pale yellow	Colorless, pale yellow	Colorless, pale yellow	Colorless, pale yellow	Colorless, pale yellow		
Density [+15 °C]	845	847	852	855	858	kg/m <sup>3</sup>	ISO 12185
Flashpoint	268	276	278	270	286	° C	ISO 2592
Pourpoint	-54	-48	-45	-45	-39	° C	ISO 3016
Kin. Visc. [+40 °C]	150	220	320	460	680	mm <sup>2</sup> /s	ISO 3104
Kin. Visc. [+100 °C]	18,9	25,0	33,4	43,8	58,6	mm <sup>2</sup> /s	ISO 3104
Viscosity index	143	143	147	148	152		ISO 2909
Operating temperatures	-45 to +140	-40 to +140	-35 to +140	-35 to +140	-30 to +140	° C	LV0124
short-term peak	+150	+150	+150	+150	+150	° C	
FZG-Test A/8.3/90 Failure load stage	>12	>12	>12	>12	>12		ISO 14635-1

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LV = 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. Please be aware that our products must not be used for applications in nuclear primary circuits or on-board aerospace systems. 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 LUBRICANTS GERMANY provides service and individual advice. Please contact us!  
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