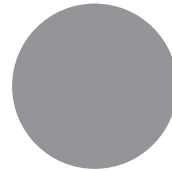


# CASSIDA FLUID HF Series

## Product Information

Synthetic hydraulic fluids for food manufacturing machinery



**CASSIDA FLUID HF 15, 32, 46, 68 and 100** are high performance, anti-wear multipurpose lubricants, specially developed for use in machinery used in the food and beverage processing and packaging industry.

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 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
- NSF ISO 21469
- Kosher
- Halal
- DIN 51524 HLP
- DIN 51524 HVLP (except HF 15)
- DIN 51517 CLP (HF 68, HF 100)



## PERFORMANCE FEATURES

- The base fluid has an ability to provide superior lubrication under the majority of operating conditions
- Good anti-wear performance offers long and reliable component life, resulting in greater plant utilisation and therefore lower maintenance costs
- Prevent component damage through excellent water separation properties, which resist formation of potentially harmful emulsions
- Excellent air release and antifoam characteristics minimise cavitations
- Resist the formation of harmful products of oxidation, even at elevated temperatures, resulting in long oil life.
- Neutral odour and taste
- High viscosity index results in minimum variation of viscosity with change in temperature
- Effective protection against corrosion of metal surfaces

## 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

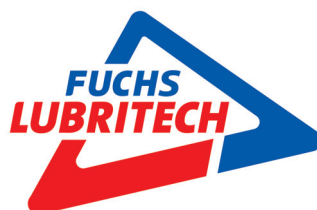
All food grade lubricants should be stored separately from other lubricants, chemical substances and foodstuffs and out of direct sunlight or other heat sources. Store between 0 °C and +40 °C. Provided that the product has been stored under these conditions we recommend to use the product within 5 years 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).

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

			CASSIDA FLUID HF				
			15	32	46	68	100
Property	Test Method						
NSF Reg. No.			144696	144697	144698	144699	144700
Colour			Colourless				
Density at +15 °C	kg/m <sup>3</sup>	ISO 12185	819	832	836	843	841
Flashpoint	°C	ISO 2592	200	222	248	256	268
Pourpoint	°C	ISO 3016	< -60			-57	-57
Kin. Visc. at +40 °C	mm <sup>2</sup> /s	ISO 3104	15	32	46	68	100
Kin. Visc. at +100 °C	mm <sup>2</sup> /s	ISO 3104	3,6	6,1	7,9	10,9	14,1
Viscosity index	ISO 2909		125	140	142	151	143
FZG-Test A/8.3/90 Failure Load Stage	ISO 14635-1		---		12	> 12	
Operating temperatures	°C	LLV 134**	-62/+100	-60/+140*	-60/+140*	-50/+140*	-45/+140*

\* short peak up to +150 °C

\*\* Lubritech Laboratory Method



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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