

## CASSIDA FLUID HF Series

Synthetic hydraulic fluids for food manufacturing machinery

### 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



Hydraulics



Roller bearings



Partner Programme



NSF registered

### 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)

## Description

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.

## 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).

## Technical Data: CASSIDA FLUID

Characteristics	HF 15	HF 32	HF 46	HF 68	HF 100	Unit	Test Method
NSF Reg. No.	144696	144697	144698	144699	144700		
Colour	Colourless to pale yellow	Colourless to pale yellow	Colourless to pale yellow	Colourless to pale yellow	Colourless to pale yellow		
Density [+15 °C]	819	832	836	839	841	kg/m <sup>3</sup>	ISO 12185
Flashpoint	200	222	248	256	268	° C	ISO 2592
Pourpoint	<-60	<-60	<-60	-57	-57	° C	ISO 3016
Kin. Visc. [+40 °C]	15	32	46	68	100	mm <sup>2</sup> /s	ISO 3104
Kin. Visc. [+100 °C]	3,6	6,1	7,9	10,9	14,1	mm <sup>2</sup> /s	ISO 3104
Viscosity index	125	140	142	143	143		ISO 2909
Operating temperatures	-62 to +100	-60 to +140	-60 to +140	-50 to +140	-45 to +140	° C	LLS 134
short-term peak	+120	+150	+150	+150	+150	° C	
FZG-Test A/8.3/90 Failure load stage	-	-	12	>12	>12		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. 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 LUBRITECH provides service and individual advice. Please contact us!  
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