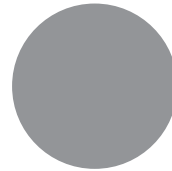


CASSIDA FLUID HFS Series

Product Information

Synthetic hydraulic fluids for food and beverage processing equipment



CASSIDA FLUID HFS 46 and **68** are high performance, anti-wear multi-purpose lubricants with boosted solvency, 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, HVLP
- DIN 51517 CLP (HFS 68)
- ISO 6743-4, L-HV



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

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).

APPLICATIONS

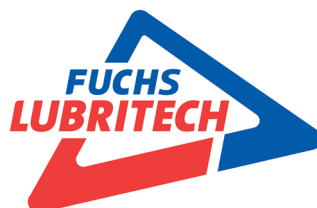
- Hydraulic systems
- Hydrostatic gears
- Plain and anti-friction bearings
- General purpose lubrication including light duty gearboxes
- Circulating oil systems

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

			CASSIDA FLUID HFS	
			46	68
Property	Test Method			
NSF Reg. No.			144701	144702
Colour			Pale yellow	
Density at +15 °C	kg/m ³	ISO 12185	841	845
Flashpoint	°C	ISO 2592	260	266
Pourpoint	°C	ISO 3016	-60	-60
Kin. Visc. at +40 °C	mm ² /s	ISO 3104	46	68
Kin. Visc. at +100 °C	mm ² /s	ISO 3104	7.9	10.9
Viscosity index	ISO 2909		146	148
Air-Release @ +50 °C	min.	DIN 51381	3	3
Vickers V104 Ring wear	mg	ISO 71955	34.1	
Vane wear	mg			
FZG (A/8.3/90) Failure load stage	ISO 14635-1		>12	
Application Temperature	°C	LLV 134**	-50/+140*	

* short peak +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