



UCON™ Hydrolube FG 46

A Fire-Resistant, Food Grade Hydraulic Fluid

UCON™ Hydrolube FG 46 is a fire-resistant, water-glycol based hydraulic fluid that is registered as a lubricant with incidental food contact by NSF (H-1 registration 131580) for use in and around food processing areas. UCON™ Hydrolube FG 46 provides excellent lubricity, imparts resistance against corrosion and rusting, is oxidatively stable, and will prolong the service life of equipment. Machinery can run longer between routine maintenance and cleaning, which significantly reduces overall operating expense. UCON™ Hydrolube FG 46 is water soluble and in the event of a leak or spill, is easily cleaned up without the use of solvents that can contaminate food.

UCON™ Hydrolube FG 46 was developed for food processing applications, such as fryers, ovens, cookers and other heat applications. Most food processing plants have used H-1 white oil type fluids, which are flammable. UCON™ Hydrolube FG 46 has been tested to Standard 6930 for Flammability of Industrial Fluids (January 2002) and approved by FM Approvals as an "FM Approved" product. Reduced fire hazards improve safety in storage, handling and use.

The U.S. Food and Drug Administration (FDA) clears only individual substances, not formulated products. The ingredients in UCON™ Hydrolube FG 46 meet the requirements of regulation 21 CFR 178.3570 as components of lubricants for use on machinery used for producing,



manufacturing, packing, processing, preparing, treating, packaging, transporting or holding food. Incidental addition to food may not exceed 60 parts per million.

Regulatory information provided in this piece is provided for the convenience of Dow customers but is not intended as an alternative to reading the full text of the applicable regulations. Additional restrictions and limitations may apply. It is the responsibility of the user of UCON™ Hydrolube FG 46 Fluid to read and understand all applicable FDA regulations in Title 21 of the Code of Federal Regulations as well as any other applicable regulations.



Technical Support

The Dow sales and technical team for UCON™ Fluids and Lubricants stands ready to support you with product selection, formulation, and application assistance; product physical properties and performance data; regulatory information; handling and storage information; as well as Material Safety Data Sheets (MSDS) and other product safety information. For assistance, please call the number for your area below.

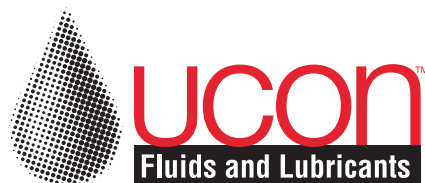
Product Stewardship

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to use.

Physical Properties of UCON™ Hydrolube FG 46*

Physical Property	FG 46
Specific Gravity, 20/20°C, ASTM D 891	1.056
Density, lbs/gal, 20°C	8.81
Pour Point, °C (°F), ASTM D 97	-48 (-54)
Viscosity, cSt @ 40°C, ASTM D 445	42 - 50
Flash Point, °C, ASTM D 93	None
Flash Point, °C, ASTM D 92	None
Solubility in Water	Complete
Water Content, wt%	38.5 max.
Four Ball Wear, 40 kg, 1200 rpm, 1 hr. @ 75°C, mm, ASTM D 4172	0.62
Load Wear Index, ASTM D 2783	25.05
Rust Prevention, ASTM D 665A	Pass
Rust Prevention, ASTM G 31 (modified)	Pass
Copper Corrosion, ASTM D 130	1a
Bulk Modulus, kPa, ASTM D 6793	2.189 x 10 ⁶
pH, undiluted	8.0 - 9.0
Vane Pump Wear Test, mg wear, ASTM D 7043	< 25
Appearance	Slight haze

*Typical properties, not to be construed as specifications.



To Learn More, Call...

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