



UCON Fluids and Lubricants

UCON Lubricant LB-X

Product Description

UCON™ LB-X Lubricants are formulated with an antioxidant for improved high temperature performance. If an application requires enhanced oxidative stability, these fluids are excellent candidates. Compared to standard UCON LB fluids, LB-X Lubricants offer the following improvements:

- Higher flash points
- Less volatility at elevated temperatures
- Less tendency to form oxidative by-products, e.g. aldehydes, organic acids
- Less tendency to become acidic during use

It is important to note these improvements are the result of high temperature antioxidant present in the fluid. The antioxidant will become depleted over time as it reacts with oxygen. Once the antioxidant is fully depleted, the LB-X fluids will be no more stable than uninhibited UCON LB fluids. During use, the color of LB-X fluids may become dark brown without signifying a complete loss of antioxidant effectiveness.

Product Nomenclature

UCON LB-X Lubricants are designated by letter and number symbols which identify their chemical structure, viscosity, and additive. The basestock for all UCON LB-X Lubricants are UCON LB fluids. These are alcohol started polymers of all oxypropylene groups. LB fluids are water insoluble and have one terminal hydroxyl group. Viscosity in Saybolt Universal Seconds (SUS) at 100°F (38°C) is designated by the numbers immediately following the "LB" designation. Example: UCON Lubricant LB-300-X has a viscosity of 300 SUS at 100°F (38°C). The last letter in the name is an "X" which designates the high temperature antioxidant N-phenyl-alpha-naphthylamine.

Typical Physical Properties*

Property	UCON Lubricant				
	LB-170-X	LB-300-X	LB-400-X	LB-550-X	LB-650-X
Viscosity @ 100°F, SUS	170	300	400	550	650
ASTM D 445					
Viscosity Index, ASTM D 2270	159	174	179	188	193
Lbs/gallon @ 20°C	8.22	8.30	8.30	8.30	8.32
Specific Gravity@ 20/20°C	0.987	0.997	0.997	0.998	0.999
Closed Cup Flash Point	186 (368)	192 (378)	217 (423)	218 (425)	233 (453)
ASTM D 93, °C (°F)					
Open Cup Flash Point	232 (450)	237 (460)	262 (505)	248 (540)	279 (535)
ASTM D 92, °C (°F)					
Water, wt%	0.25	0.25	0.25	0.25	0.25

* Typical properties, not to be construed as specifications

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 the use.

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