

Lotus Lubes™ Prime FG Hydraulic Oil

PRODUCT DESCRIPTION

Lotus Lubes™ Prime FG Hydraulic Oil are premium **food grade** lubricants formulated with white mineral base oils and a proprietary additive system designed for food processing equipment applications. They meet the stringent requirements for lubricants with the possibility of incidental contact with food for human consumption. **Lotus Lubes™ Prime FG Hydraulic Oil** are recommended for use in facilities operating under the jurisdiction of the USDA (food processing, canning, bottling, etc.) in medium pressure hydraulic systems, circulating systems, and for air-line lubrication.

FEATURE & BENEFITS

- * Excellent wear protection to protect critical system components
- * Maximum resistance to system foaming, rust, and oil oxidation
- * Exceed FDA 21 CFR 178.3570 standard for lubricants with the possibility if incidental contact with food
- * NSF registered for Incidental Food Contact (H1)
- * Certified to ANSI/NSF Standard 60, Drinking Water Treatment Chemicals (ISO Grade 32)
- * Produced under supervision of and Kosher approved by the Union of Orthodox Jewish Congregations of America
- * Formulated with high molecular weight polymers for optimum high-temp performance (ISO Grades 100, 220, 460)
- * Odorless, tasteless, colorless, and non-staining



TYPICAL PHYSICAL PROPERTIES

ISO Viscosity Grade	32	46	68	100	220	460
API Gravity @ 60°F	32.6	32	31.1	31.3	29.9	29.2
Pour Point °C (°F)	-15 (-5)	-12 (10)	-9 (16)	-14 (7)	-15 (5)	-20 (-5)
Flash Point, °C (°F)	222 (432)	220 (428)	248 (479)	249 (479)	257 (495)	232 (450)
Viscosity cSt @ 40°C	32.5	47.9	72.5	106.8	221.5	434.6
Viscosity cSt @ 100°C	5.6	6.7	9.3	11.2	18.9	29.4
Viscosity SUS @ 100°F	168.2	247.0	374.8	559.5	NA	NA
Viscosity Index	108	108	108	102	NA	NA
Color (Saybolt)	+26	+24	+20	+20	NA	NA
Oxidation Stability ASTM D943	>8000	>8000	>8000	>8000	>6000	>6000
NSF Registration	H1	H1	H1	H1	H1	H1
Water Separation, min @ 130°F	10	10	10	30	6	20
Water Separation, min @ 180°F	5	5	5	40	5	20
Four Ball Wear @ 20 kg, mm	0.25	0.25	0.23	0.23	0.27	0.28
Four Ball Wear @ 40 kg, mm	0.38	0.38	0.34	0.28	0.38	0.4
Vickers Pump Wear, mg	15	15	15	15	NA	NA
Rust Test, ASTM D665A	PASS	PASS	PASS	PASS	PASS	PASS
FDA 21 CFR 178.3570	PASS	PASS	PASS	PASS	PASS	PASS
Kosher Parve	PASS	PASS	PASS	PASS	PASS	PASS
ANSI/NSF Standard 60	PASS	NA	NA	NA	NA	NA

Minor variations in typical physical properties may occur from normal manufacturing processes

APPLICATIONS

Lotus Lubes™ Prime FG Hydraulic Oil 32, 46, 68, & 100 are general purpose lubricants recommended for hydraulic systems and circulating systems in machinery used to process, package, bottle, can, or transport food for human consumption. They meet performance standards for Denision HF-O, HF-1 & HF-2, Sperry Vickers M-2950-S & I-286-S, and Cincinnati Milacron P-68, P-69, and P-70. They also provide a viable option for hydraulic applications near environmentally sensitive areas such as bodies of water, national parks, recreational areas, amusement parks, elevators, and in-ground hydraulic.

Lotus Lubes™ Prime FG Gear Oil 220 & 460 are specially formulated light-duty gear oils developed for use in worm gears, spur gears, and valves found in machinery used to process, package, bottle, or transport food for human consumption.