

# Product Data Sheet

LubriSilk® LSHF  
Hydraulic Fluid



## LUBRISILK® HYDRAULIC FLUID

Hydraulic power systems typically consists of a sump, motor, pump, valves, actuators and hydraulic fluid, and if properly maintained can be very reliable. However, if not maintained properly, repairs can be expensive. Signs of hydraulic problems include noise, elevated temperatures and slow/erratic operation.

Heat, air contamination and water contamination are the most common causes of poor hydraulic performance. Increased fluid temperatures can be the result of the system's inability to dissipate heat. In most systems, heat within the fluid dissipates through the fluid in the reservoir and a heat exchanger. Heat can cause the fluid to thin, which prevents proper lubrication and may cause pump leaks, reducing pump efficiency and system performance. Further increases in temperature cause the fluid to oxidize, which thickens the fluid and creates varnish and deposits. Fluid thickening further impedes its ability to cool and lubricate components and may cause deposits to form on components, restricting fluid flow.

**LubriSilk® Hydraulic Fluid (LSHF)** with **Boron-CLS-Bond®** is formulated with advanced sub-nano sized Boron ingredients. Its active chemical process creates a permanent nanometer layer of extremely low-friction crystal lattice molecular structures (CLS) that become part of the working metal surfaces.

**Boron-CLS-Bond®** creates a barrier. The inter-atomic bonding of the **Boron-CLS-Bond®** components reacts to metal surfaces depending on the amount of time and temperature, and provides a long-lasting, low friction surface impervious to most contaminants. Compatible with ISO VG 32 through ISO VG 48 fluids, this product will reduce friction, wear and corrosion in the hydraulic fluid pump, hydraulic motors, rams and bearings in your hydraulic equipment.

**LubriSilk® Hydraulic Fluid** is an ashless anti-wear hydraulic oil (ISO 46 Compatible Hydraulic Fluid or Hydraulic Fluid Treatment).

**LubriSilk® Hydraulic Fluid** provides maximum lubricity, wear reduction, and corrosion protection and is ideal for extreme pressure and high temperature applications. It is highly adhesive, waterproof, non-staining, contains no Zinc or other heavy metals and is biodegradable. It has excellent thermal and oxidation stability, durability and filterability, and extends oil life.

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## USAGE

**LubriSilk® Hydraulic Fluid** is a multifunctional hydraulic oil, suitable for most applications for all forms of machines that require hydraulics. Install **LubriSilk® Hydraulic Fluid** treatment in your hydraulic fluid reservoir in a ratio of ~1: 20 (although can also be applied as a complete fluid replacement 1:1). After adding the product, operate your equipment / hydraulic pump for at least 15 minute and through all its normal range of movement. This will act to disburse the product throughout the installed fluid in the system. Compatible with most other hydraulic fluids, its distinct nature is the extremely high flashpoint.

## APPLICATIONS

**LubriSilk® Hydraulic Fluid** will reduce the friction and wear in the hydraulic fluid pump, hydraulic motors, rams, bearings and all metal surfaces in contact with the hydraulic fluid. **LubriSilk® Hydraulic Fluid** treatment will significantly prolong the life of your equipment's hydraulic system.

## SPECIFICATIONS

ISO VG	ASTM D-2422.....	32/46
SAE Grade.....		5W-20
Viscosity Index	ASTM D-2270.....	187
Specific Gravity	ASTM-D1298.....	.918
Flash Point	ASTM-D92.....	310°C
Fire Point	ASTM-D92.....	>350 °C
Pour Point	ASTM-D97.....	-45 °C
Biodegradability	CEC L-33-T-82.....	80
Dilectric Strength	ASTM D-877.....	48kV

## PACKAGING

Bottle.....	16 oz /	473 ml
Bottle.....	32 oz /	946 ml
Pail.....	35 lb /	16.6 litre
Drum.....	400 lb /	189.3 litre
Tote.....	2000 lb /	946.0 litre

