

PRODUCT INFORMATION



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L-632 Way Lube

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DESCRIPTION

L-632 Way Lube Oils are premium-quality lubricants specifically designed to fully meet the requirements for accuracy and parts finish of today's high production machine tools. They are formulated from high-quality base stocks and performance balanced with a progressive additive system that provides low frictional properties, excellent corrosion protection and foam resistance. A unique advanced additive package helps reduce stick-slip and chatter under thin film, boundary lubrication conditions. This allows smooth, uniform motion at design travel speeds. *L-632* series have been optimized to provide excellent separability from aqueous coolants in coolant systems while minimizing the corrosive effects of high pH coolants on lubricated surfaces. The base stocks and additive package have been carefully selected to protect slides and ways while still providing good filterability. This is important because reduced flow or plugged applicator filters will increase stick-slip, chatter and wear. The metal-wetting and adhesive agents from uniform films that resist squeezing from way surfaces while the machine is not in operation.

FEATURES/BENEFITS

- Excellent oxidation stability means long service life and cost savings
- Outperforms other fluids in high efficiency (high temperature, high output) applications where severe stress conditions are placed on the hydraulic fluid
- Excellent antiwear properties which provide the best in wear protection
- Inherently more environmentally friendly thus minimizing any long term environmental concerns. Suitable for conventional recycling programs unlike vegetable hydraulic oils
- Aromatic-free and have passed the U.S. Coast Guard static sheen test requirements
- Exceeds the U.S. EPA LC-50 test requirements for mysidopsis bahia shrimp, rainbow trout and fathead minnow.

Passes the Static Sheen Test (40CFR 435 Subpart A Appendix 1)

APPLICATION

L-632 Way Lube Oil series products are recommended both as slideway lubricants and as fluids for moderate service machine tool hydraulic systems. These oils are designed for use with all combinations of cast iron, steel and non-metallic way materials. *L-632* Way Lube may be applied by hand, forced feed lubricators or in flood application by circulation system. Their extreme pressure properties make them suitable for all types of gears found in machine tools. They should be used in circulation systems where bulk oil temperatures exceed 66°C.

- *L-632* (20) is recommended for horizontal slideways on small to medium size machine tools. It is also suitable for flood application in large machines.
- *L-632* (30) is recommended for dual-purpose gear and way lubrication systems.

SPECIFICATIONS

SAE GRADE	10	20	30
API Gravity, ASTM D 4052	31.1	30.6	29.8
Pounds per gallon	7.3	7.4	7.4
Flash Point, ASTM D92, °F	410	412	430
Pour Point, ASTM D97, °F	-26	-5	-5
Viscosity, ASTM D445			
cSt at 40°C	68	100	145
cSt at 100°C	8.9	11.9	14.9
Water Separation, ASTM D 1401, minutes			
at 130°F	15	-	-
at 180°F		-	-
Viscosity Index, ASTM D2270	106	106	98
Four-Ball Wear, ASTM D 2266			
Scar, mm at 20 Kg	.30	.30	.30
Scar, mm at 40 Kg	.37	.37	.37
Oxidation Stability, ASTM D 943, hrs to 2.0 AN	15000 +	15000+	15000+
FZG LOAD STAGE PASS DIN 51354	12	12	12