



PAPER MACHINE OILS

Paper mills are very demanding of lubricants. One especially severe application is the paper machine circulating oil. Here, the oil is subjected to high temperatures in the dryer bearings, which promotes sludge and varnish formation, water contamination and heavy loads. **PAPER MACHINE OILS** are specially formulated to stand up to these potential problems and provide long, trouble-free service.

PAPER MACHINE OILS are made from select base oils augmented with a premium additive package. This combination yields an oil with a number of outstanding benefits.

PAPER MACHINE OILS resist deposits at high temperatures as exhibited by excellent Panel Coker Test results. This is a very severe test that is designed to simulate the same type of action that occurs inside a dryer bearing. In the bearing housing, the oil splashes on the hot bearing to cool and lubricate it. In the test, oil is splashed on a panel heated to 500°F. At the end of the test, the amount of deposits on the panel is first rated on a scale of 1 to 10 (10 being the best.) The panel is weighed and then the weight of deposits is determined. **PAPER MACHINE OILS** scored a rating of 9.0 and only 1.0 grams of deposits collected on the panel.

In addition, **PAPER MACHINE OILS** have excellent water separation ability. In the ASTM D-1401 Demulsibility Test, it reaches complete separation (40/40/0) in only 15 minutes.

PAPER MACHINE OILS have anti-wear

additives to protect metal surfaces from wear when heavy loads are encountered. They also protect against rust and corrosion. In all, **PAPER MACHINE OILS** have the capability to deal with all the adversity paper machines are likely to create.

BENEFITS:

- SEPARATES RAPIDLY FROM WATER
- REDUCES SLUDGE AND VARNISH DEPOSITS
- PROVIDES EXCELLENT WEAR PROTECTION
- GUARDS AGAINST RUST AND CORROSION
- EXTENDS OIL LIFE, REDUCING MAINTENANCE COST

APPLICATIONS:

PAPER MACHINE OILS are recommended for circulation systems serving paper machine wet end bearings, calendar stacks, dryer sections and other areas. They are also suitable for pumps, speed reducers and other similar applications.

PAPER MACHINE OILS excel in applications where there is heavy water contamination and/or high temperatures. Their superior filterability makes it ideal for circulation systems, even in the presence of water.



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TYPICAL CHARACTERISTICS

ISO Viscosity Grade	150	220	320
Product Code	15068	15069	15070
API Gravity (ASTM D 1298)	28.5	28.3	27.5
Viscosity (ASTM D-445)			
cSt @ 40°C	150	210	310
cSt @ 100°C	14.5	18.2	23.5
SUS @ 100°F	798	1110	1650
SUS @ 210°F	78	93	117
Viscosity Index (ASTM D-2270)	95	95	95
Pour Point (ASTM D-97) °F (°C)	0 (-18)	0 (-18)	5 (-15)
Flash Point (ASTM D-92)			
°F	485	510	535
(°C)	(252)	(266)	(279)
Panel Coker Test (4 Hours @ 500°F)			
Panel Rating (10 = Best)	9.0	9.0	9.0
Deposit Weight, mg	1.0	1.0	1.0
Water Separation (ASTM D-1410)			
Minutes to Complete Separation (40/40/0)	15	15	15
Four Ball Wear (ASTM D-2266)			
Scar Diameter, mm	0.45	0.45	0.45
Rust Test (ASTM D-665)			
Distilled Water	Pass	Pass	Pass
Synthetic Sea Water	Pass	Pass	Pass
Denison Filterability Test			
Without Water	Pass	Pass	Pass
With Water	Pass	Pass	Pass

The above data is subject to usual manufacturing variation. For more information or available, please call 1-800-442-LUBE.
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