



TECHNICAL DATA BULLETIN

6190-6140 MONOLEC® Paper Machine Lubricant

Description:

Premium quality paper machine oil made from select paraffinic base oil. Specifically formulated to provide excellent thermal oxidation stability and rust and corrosion protection for long oil life. Excellent detergency prevents carbon deposit build-up and coking to minimize oil system plugging and premature bearing failures. Excellent wear protection provided by proprietary additives and MONOLEC®, LE's exclusive wear-reducing additive.

Physical Characteristics – Typical:

	<u>6190</u>	<u>6140</u>
ISO Grade	220	320
API Gravity	27.6	27.2
Viscosity		
SUS @ 100°F	1,166	1,707
SUS @ 210°F	94.2	117.5
cSt @ 100°C	18.4	23.6
cSt @ 40°C	220	320
Viscosity Index	95	95
Color	Red	Red
Pour Point, °F (°C)	0 (-18)	0 (-18)
Flash Point, °F (°C)	510 (266)	510 (266)

Application:

For use in paper machine circulating systems for hot bearings and where high oxidation stability and detergency are needed to minimize deposits caused by long exposure to steam heat.

Typical Test Results:

Rust Test		
ASTM D-665B	Pass	Pass
Oxidation Test		
ASTM D-2272, min.	293	265
Copper Corrosion		
ASTM D-130	1a	1a
Four Ball Weld Pt., kg		
ASTM D-2783	160	160
Four Ball Wear, mm, 40 kg		
ASTM D-4172	0.48	0.45
Water Separation		
ASTM D-1401	43-37-0/25	43-37-0/30

LUBRICATION ENGINEERS, Inc.

Beneficial Qualities:

Two viscosities (ISO 220 and ISO 320) which offer superior performance in paper machines.

Excellent oxidation resistance, 20-25% better than commercial paper machine lubricants.

Precipitate values 15% lower than commercial paper machine oils in the Cincinnati-Machine Thermal Stability Test.

72% smaller scar diameter in the Four-Ball EP Test at 100 kg when compared to commercial paper machine oils.

Excellent filterability.