



Monolec® Paper Machine Lubricant (6190-6140)

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 additives including Monolec, LE's proprietary wear-reducing additive.

	6190	6140
Color	Red	Red
ISO VG / SAE Grade	220	320
Relative Density @ 60°F/60°F, ASTM D1298	0.886	0.886
Viscosity @ 100°C, cSt, ASTM D445	19.30	24.55
Viscosity @ 40°C, cSt, ASTM D445	230.2	335.1
Viscosity Index ASTM D2270	95	95
Flash Point °C (°F) (COC), ASTM D92	268 (515)	268 (515)
Pour Point °C (°F), ASTM D97	-12 (10)	-12 (10)
Rust Test 4 hrs @ 60°C, DI H₂O, ASTM D665A	Pass	Pass
Rust Test 4 hrs @ 60°C, Sea H₂O, ASTM D665B	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1a	1a
Oxidation by RPVOT @ 150°C, minutes, ASTM D2272	263	253
Four-Ball EP Weld Point, kgf, ASTM D2783	200	200
Four-Ball Wear @75°C, 1200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D4172	0.37	0.40
Emulsion Characteristics @82°C, oil-water-emulsion/minutes, ASTM D1401	40-40-0/10	40-40-0/10
Air Release >90.0 cSt @ 40°C: 75°C, minutes, ASTM D3427	10.77	–

Beneficial Qualities

- Excellent filterability
- Excellent oxidation resistance (20-25% better than commercial paper machine lubricants)
- Precipitate values 15% lower than commercial paper machine oils in Cincinnati-Machine Thermal Stability Test
- Smaller scar diameter in Four-Ball EP test when compared to commercial paper machine oils

Typical Applications

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