



## Paper Machine Oil

Paper Machine Oil is a high-quality circulating oil developed for use in modern papermaking machines. It is recommended for use in paper machines manufactured by all leading OEMs. It is specially formulated to provide excellent detergency for system cleanliness while still maintaining excellent water-separating properties.

Paper Machine Oil is formulated with an additive package specially tailored for papermaking machines. It has good oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It has excellent detergency to help maintain system cleanliness. It has excellent water-separating properties to minimize the formation of emulsions, and passes the Pall Filterability Test for both new oil and "aged" oil contaminated with water. It has good load-carrying capacity for wear protection, protects system components against rust and corrosion, and has good foam resistance.

### ***Applications***

- Circulating systems of paper machines, including wet-end systems, dryer sections and calender stacks
- Circulating systems for heavily loaded bearings where moisture contamination is a problem and operating temperatures are high
- Reduction gears and gear-head motors
- Vacuum pumps and water pumps

### ***Features/Benefits***

- Excellent detergency
- Excellent water-separating properties
- Excellent filterability for use with fine porosity filters
- Good oxidation resistance and thermal stability
- High load-carrying capacity
- Protects against rust and corrosion
- Good foam resistance

## Paper Machine Circulating Oil

### **CONTACT INFORMATION**

**Phillips66  
Lubricants.com**

U.S. Customer  
Service:  
**1-800-368-7128**

Technical Hotline:  
**1-877-445-9198**

International  
Customer Service:  
**1-832-765-2500**

E-mail address:  
**lubricants@  
p66.com**



## Paper Machine Oil

### Typical Properties

ISO Grade	150	220	320
Specific Gravity @ 60°F	0.876	0.882	0.887
Density, lbs/gal @ 60°F	7.30	7.34	7.39
Color, ASTM D1500	2.5	4.0	4.5
Flash Point (COC), °C (°F)	260 (500)	270 (518)	270 (518)
Pour Point, °C (°F)	-12 (10)	-12 (10)	-12 (10)
Viscosity,			
cSt @ 40°C	150	220	320
cSt @ 100°C	15.0	18.9	24.4
SUS @ 100°F	787	1,164	1,702
SUS @ 210°F	79.7	96.4	121
Viscosity Index	100	96	97
Acid Number, ASTM D974, mg KOH/g	0.70	0.70	0.70
Copper Corrosion, ASTM D130	1a	1a	1a
Demulsibility, ASTM D1401, minutes to pass	10	10	10
Foam Test, ASTM D892, Seq. I, ml	0/0	0/0	0/0
Rust Test, ASTM D665 A&B	Pass	Pass	Pass
Timken OK Load, ASTM D2782, lb	30	30	30

### Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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