



# TECH DATA

## SEPRO™ PAPER MACHINE OILS

## INTRODUCTION

Petro-Canada Lubricants' SEPRO™ XL and PM paper machine oils are high-quality, premium-performance oils specially formulated for bearings and circulating systems of industrial paper machines. SEPRO XL and PM paper machine oils are designed to provide maximum equipment protection, optimum performance and increased uptime.

Petro-Canada Lubricants' unique formulation starts with a blend of high quality base oils and a carefully selected additive chemistry which makes SEPRO XL and PM paper machine oils long-lasting, reliable and efficient.

SEPRO XL is based on a zinc-free additive chemistry while SEPRO PM uses a zinc-based additive system. Together, they deliver options and solutions for a variety of systems and operating conditions.

## SEPRO XL AND PM

### FEATURES AND BENEFITS

#### Long Lasting Oil

- Resists oil degradation with good oxidative and thermal stability and protects equipment longer
- Helps maintain system cleanliness with detergent-dispersant properties
- Extends drain intervals and reduces oil change-outs and maintenance costs

#### Excellent Rust and Corrosion Protection

- Protects equipment against rust especially in wet ends of paper machines
- Protects equipment against copper and yellow metals corrosion

#### Outstanding Anti-Wear Performance

- Protects loaded components and bearings against wear
- Improves operation reliability and helps equipment run smoothly
- Extends equipment life and reduces unplanned downtime and maintenance

#### Exceptional Water Separation

- Ensures easy water removal without loss of performance additives
- Enhances rust protection and extends fluid life

#### Excellent Foam Resistance

- Resists foaming and shows very good air release properties
- Ensures a consistent lubricant film maintained on metal surfaces

### APPLICATIONS

Petro-Canada Lubricants' SEPRO XL paper machine oils are zinc-free oils, carefully designed to offer reliable performance in both dry and wet ends of paper machine circulating systems.

Petro-Canada Lubricants' SEPRO XL paper machine oils are suitable for use where the following paper machine OEM specifications are required: Voith VS 108 for dry and wet ends, Valmet RAU4L00659-06 for dry and wet ends, Valmet RAUAH02724-02 for zone-controlled rolls and SKF Specifications for Bearing in Dryer Sections of Paper machines.

Petro-Canada Lubricants' SEPRO PM paper machine oils have been developed with a high-performance zinc-based additive chemistry for use in wet and dry ends of paper machine circulating systems lubricating dryer roll, press roll, couch roll and calendar roll bearings as well as felt rolls, Yankee dryers and machine drives. SEPRO PM paper machine oils can be used in various circulation systems where excellent bearing lubrication is required at high temperatures.

## TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	SEPRO XL		SEPRO PM	
		150	220	150	220
Density @ 15°C, kg/L	ASTM D4052	0.879	0.881	0.879	0.882
Colour	ASTM D1500	2.5	<4.0	<3.0	4.5
Flash Point, COC, °C / °F	ASTM D92	272 / 522	282 / 540	269 / 516	275 / 527
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	ASTM D445	152 15.2	222 19.4	151 14.8	220 19.4
Viscosity Index	ASTM D2270	101	100	97	100
Pour Point, °C / °F	ASTM D5950	-27 / -17	-18 / 0	-27/-17	-18/0
Water Separability at 82°C, minutes	ASTM D1401	10	10	5	10
Foam Test Sequence I at 24°C, ml/ml Sequence II at 93.5°C, ml/ml Sequence III at 24°C, ml/ml	ASTM D892	0/0 0/0 0/0	0/0 0/0 0/0	0/0 0/0 0/0	0/0 0/0 0/0
Copper Corrosion	ASTM D130	1a	1a	1a	1a
Rust Test, 24 hours Procedure A Procedure B	ASTM D665	Pass Pass	Pass Pass	Pass Pass	Pass Pass
Air Release @ 75°C, minutes	ASTM D3427	7	10	6	9
Four-Ball Wear Test, scar diameter, mm 40 kg, 1 hour, 75°C, 1200 rpm	ASTM D4172	0.43	0.42	0.44	0.43
FZG Failure Load Stage	ASTM D5182	12+	12+	12	12

The values quoted above are typical of normal production. They do not constitute a specification.

Learn more about us: [lubricants.petro-canada.com](http://lubricants.petro-canada.com)  
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Committed to the disciplined operation of our business.



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