

BEYOND SYNTHETIC™

Synmist is a high performance, synthetic lubricant specifically designed for use in centralized air mist lubrication systems. Synmist is designed to readily atomize to eliminate large, unwanted wet oil droplets that can accumulate in mist systems. Synmist also exhibits superior reclassification properties that ensures oil is delivered onto the bearing surface where it is needed.

Synmist gains its performance advantages through a superior blend of synthetic oils plus Royal Purple's proprietary Synerlec additive technology, which forms a tenacious, ionic, protective film on bearing surfaces.

Synmist is an undyed product.

SYNERLEC[®] ADDITIVE TECHNOLOGY MAKES THE DIFFERENCE!

Synthetic oils enable Royal Purple to make superior lubricants, but it is Royal Purple's advanced Synerlec additive technology that gives Royal Purple's lubricants their amazing performance advantages. Synerlec additive technology truly is beyond synthetic.

Synerlec additive technology forms a tough, slippery, synthetic film on all metal surfaces. This proprietary film significantly improves lubrication: first, by increasing the oil film's thickness, and second, by increasing the oil film's toughness, both of which help to prevent metal-to-metal contact. It displaces moisture from metal surfaces and protects all metals against rust and corrosion. It also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

PERFORMANCE ADVANTAGES

- **High Film Strength**
Synmist protects bearings far beyond the ability of other mist oils by providing greater reliability and longer bearing life.
- **Rapidly Separates from Water**
Synmist will not emulsify — even in the presence of moist air.
- **Saves Energy**
Synmist reduces friction in bearings and improves equipment efficiency.
- **Low Temperature Fluidity**
Synmist remains fluid at very low temperatures for winter service.
- **Reduces Bearing Vibrations**
The tough oil film of Synmist coupled with its ability to micro-polish contacting bearing elements provides superior bearing lubrication.
- **Reduces Oil Usage**
Because Synmist with Synerlec additive technology tenaciously adheres to bearing surfaces, mist rates can be reduced, which provides meaningful savings without adversely affecting reliability.
- **Excellent Corrosion Protection**
Synmist leaves a tough oil film that forms an ionic bond on metal surfaces, which acts as a preservative oil during shutdown and provides instant lubrication upon startup.
- **Synthetic Solvency**
Synmist has excellent oxidation stability and synthetic solvency to keep bearings free of harmful oil deposits.
- **Compatible with Other Oils**
Synmist is compatible with most synthetic and all mineral air mist oils.
- **Environmentally Responsible**
Synmist components are TSCA listed and meet EPA, RCRA and OSHA requirements. Reduced mist rates lessen the amount of oil purchased and disposed of. Synmist also conserves energy.

TYPICAL PROPERTIES*	ASTM METHOD	ISO GRADES					
		32	46	68	100	150	320
Viscosity	D-445						
cSt @ 40°C		32	46	68	100	150	320
cSt @ 100°C		6.0	7.7	10.1	13.1	17.3	28.8
Viscosity Index	D-2270	135	136	133	129	126	122
Flash Point, °F	D-92	455	455	485	475	465	445
Pour Point, °F	D-6892	-38	-38	-38	-44	-44	-40
Copper Corrosion Test	D-130						
3 Hrs @ 100°C		1A	1A	1A	1A	1A	1A
24 Hrs @ 100°C		1A	1A	1A	1A	1A	1A
Rust Test	D-665						
Fresh Water		PASS	PASS	PASS	PASS	PASS	PASS
Salt Water		PASS	PASS	PASS	PASS	PASS	PASS
Foam Test, Seq II	D-892						
Initial/Final/Time _(sec)		8/0/2	6/0/1	10/0/5	10/0/5	12/0/7	6/0/3
Demulsibility Test	D-1401						
Mins @ 130°F		5	5	5	---	---	---
Mins @ 180°F		---	---	---	5	10	15
Density, lbs/g	D-4052	7.04	7.08	7.12	7.19	7.24	7.32

*Properties are typical and may vary