

SYNOLAN 3000 OILS



LUBRICATION



TOTAL

High Temperature, Synthetic (PAO) Based, Oven Chain Oils.

APPLICATIONS

High temperature oven chain applications.

- **SYNOLAN 3000 OILS** are high temperature, synthetic (PAO) based, chain lubricants developed for high temperature chain and bearing applications such as tenter frame ovens, curing ovens, kilns, heated press platens, and wood laminate machinery.
- **SYNOLAN 3000 OILS** are suitable for continuous operation in excess of 400°F. Due to the cost of these products, lubricants are typically applied with micro-lubrication devices to optimize lubricant quantities needed for operations.
- Typical oven chain uses for the ISO 100 and 150 grades, where high cleanliness and low volatility is needed, include ceramic curing, tenter frames, paint curing, fiberglass, rock wool curing, and kilns where temperatures can reach 550°F. The ISO 150 grade is a premium grade with lower smoke than the other grades. Other high temperature chains, belts, or bearings of ferrous and non-ferrous metals can often be lubricated with the more economical ISO 220 grade. Applications for the ISO 220 grade are found in continuous particle board and wood laminate machinery.

ADVANTAGES

Outstanding stability and low volatility.

- High natural viscosity index.
- Outstanding thermal and chemical stability.
- Excellent penetration and wear protection.
- Low volatility.
- Lowers maintenance costs.

TYPICAL CHARACTERISTICS	METHODS	SYNOLAN 3000 OILS			
		3032	3100	3150	3220
ISO Viscosity Grade		32	100	150	220
SAE Grade		10	30	50	90
Viscosity at 40°C, cSt	ASTM D 445	33.5	95.0	155.0	260.0
Viscosity at 100°C, cSt	ASTM D 445				
Viscosity Index	ASTM D 2270	145	118	150	150
Density @ 60°F, lbs./gal.	ASTM D 1298	8.25	7.91	7.59	8.08
Specific Gravity @ 60/60°F	ASTM D 1298	0.990	0.950	0.911	0.970
Pour Point, °F(°C)	ASTM D 97	-70(-57)	-31(-35)	-60(-51)	-31(-35)
Flash Point, COC, °F(°C)	ASTM D 92	495(258)	480(249)	575(302)	446(230)
Auto Ignition, °F(°C)		775(413)	-	-	-
Evaporation Loss, 22 hrs., 210°F, %wt.	ASTM D 972	0.1	-	-	0.2

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