



SYNOLAN 3000

SYNTHETIC CHAIN OILS

SYNOLAN 3000 OILS are high temperature synthetic 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.

Chains, like most other moving equipment, require lubrication in order to attain a long useful life. Chains operating in high temperature environments require special lubricants for good lubrication.

Conventional petroleum oils oxidize rapidly at elevated temperatures, forming sludge, varnish and carbon deposits, which shortens chain life and contaminates the materials being produced. For example, carbon flaking off a paint oven chain is likely to damage newly painted parts in production.

SYNOLAN 3000 OILS are specially designed for high temperature chain application. They are blended from high quality synthetic base stocks and further enhanced with selected additives to provide outstanding oxidative and thermal stability. In high temperature services, they significantly reduce, in many cases eliminate, sludge, varnish and carbon deposits, and thus prolong chain life.

SYNOLAN 3000 OILS exhibit low volatility, which reduces oil consumption, decrease fire hazard, and lower maintenance cost.

In addition to chains applications, **SYNOLAN 3000 OILS** are suitable for high temperature bearing lubrication. These products contain effective anti-wear additives to reduce chain wear and chain drag.

FEATURES & BENEFITS:

- **OUTSTANDING THERMAL & OXIDATIVE STABILITY** (eliminates sludge, varnish and carbon deposits)
- **LOW VOLATILITY** (reduces oil consumption and fire hazard)
- **WEAR PROTECTION** (prolongs chain and bearing life, and lowers maintenance cost)

APPLICATIONS:

SYNOLAN 3000 CHAIN OILS are recommended for high temperature chain and bearing lubrication. These products are suitable for continuous operation in excess of 400°F.

Typical oven chain uses for the 100 and 150 grades where high cleanliness and low volatility is needed include ceramic curing, tenter frames, paint curing, fiberglass or rock wool curing and kilns where temperatures can reach 550 F. The 150 grade has lower smoke than other grades.

Other high temperature chains, belts or bearings of ferrous and non-ferrous metals can often be lubricated with the more economical 220 grade. Applications for the 220 grade are found in continuous particle board and wood laminate machinery.

SYNOLAN 3000 OILS can be applied either manually or via automatic lubrication equipment.



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TYPICAL CHARACTERISTICS

ISO Viscosity Grade	32	100	150	220
Product Code	43032	(43100)	(43150)	43220
SAE Viscosity Grade	10	30	90	90
API Gravity (ASTM D-1298)	10.8	17.4	23.8	14.9
Specific Gravity	0.99	0.95	0.911	0.97
Viscosity (ASTM D-445):				
cSt @ 40°C	33.5	95	155	260
cSt @ 100°C	6.4	12	19.1	30
SUS @ 100°F	171	492	717	1350
SUS @ 210°F	48	67.6	94.5	146
Viscosity Index (D-2270)	145	118	150	150
Flash Point (D-92) °F (°C)	495 (258)	480 (249)	575 (302)	446 (230)
Autoignition (D-972) °F (°C)	775 (413)	-	-	--
Evaporation loss, wt% (D 972) 22 Hours @ 210°F	0.1	-	-	0.2
Pour Point (D-97) °F (°C)	-70 (-57)	-31 (-34)	-60 (-51)	-31 (-35)
Four Ball Wear Test (D-4172) (1 Hour/75°C/1200 rpm/40 kg) Scar Diameter, mm	0.45	-	-	0.3
Sulfated Ash, %	0.003	-	-	--

The above data is subject to usual manufacturing variation. Form more information and availability, call 1-800-442-LUBE.
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