



SYNOLAN DIESTER COMPRESSOR OIL

(For Severe Air Compressor Applications)

SYNOLAN DIESTER COMPRESSOR OILS are superior quality synthetic lubricants with exceptional high stability and durability. They provide outstanding oxidative and thermal stability, excellent dispersing ability, and superior resistance to sludge, varnish, lacquer and carbon deposit formation resulting in an increased useful oil life. They excel in air compressor and heat transfer systems applications.

SYNOLAN DIESTER COMPRESSOR OILS are blended from premium quality synthetic base stocks and further enhanced with the latest additive technology. They effectively reduce, and in most cases, eliminate sludge and varnish deposits in rotary screw and vane compressors. They also minimize carbon deposits on reciprocating compressor exhaust valves, reducing the hazards of compressor fire or explosion. These products satisfy the lubrication requirements of majority of compressors in service today.

The superior low temperature properties, inherent oxidative stability and excellent thermal conductivity enable these products to perform satisfactorily in year-round services. They reduce wear at cold startup, and maintain viscosity and high film strength at high temperatures. This means that equipment gets superior wear protection at both high and low temperatures, and potential energy savings.

SYNOLAN DIESTER COMPRESSOR OILS are capable of extending the lubricant service life, typically four times over that of mineral oil based products. In addition, they often extend the service life of filters and separators, resulting in an overall improvement of productivity, increased efficiency, reduced maintenance cost and downtime.

SYNOLAN DIESTER COMPRESSOR OILS are recommended for use with fluorocarbon (Teflon and Viton), fluorosilicone, polysulfide and high nitrile Buna-N elastomers. It is not recommended for use with butyl rubber, natural rubber, neoprene, styrene-butadiene rubber or

low-nitrile Buna-N seals. **Seals, paints and other coatings should be checked for compatibility** with diester before converting from a mineral or PAO-based product. **SYNOLAN DIESTER COMPRESSOR OILS** are readily miscible with mineral oil, PAO, synthetic polyglycol or vegetable oil based fluids.

BENEFITS:

- SUPERIOR DISPERSANCY AND OXIDATION STABILITY
- REDUCES SLUDGE, VARNISH AND CARBON DEPOSITS
- PROTECTS AGAINST WEAR, RUST AND CORROSION
- EXTENDED SERVICE LIFE

APPLICATIONS:

SYNOLAN DIESTER COMPRESSOR OILS are recommended for a wide range of air compressor equipment including rotary screw, rotary vane, reciprocating and centrifugal compressors.

ISO 32, 68, 100 and 150 are especially suitable for use in oil flooded rotary vane and screw type compressors with operating temperatures over 200 F. The ISO 100 grade is suitable for both crankcase and cylinder lubrication in reciprocating compressors and is recommended for use in Ingersol Rand SSR compressors

SYNOLAN DIESTER COMPRESSOR OILS are *not* intended for use in heavily loaded applications or any automotive or industrial gear application that require an extreme pressure (EP) gear oil. **Do not** use these products in spiral bevel, hypoid or worm gear applications.

CAUTION: Always follow equipment manufacturer's recommendations for selecting the proper viscosity grade and preferences on using diester-based or PAO-based lubricants.



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TYPICAL CHARACTERISTICS

Product Code	42032	42068	42100	42150
ISO Viscosity Grade	32	68	100*	150
API Gravity	11.6	14.4	15.7	15.7
Specific Gravity (ASTM D-1298)	0.989	0.970	0.961	0.961
Viscosity (ASTM D-445):				
cSt @ 40°C	32.4	68.3	98.8	151
cSt @ 100°C	6.6	8.9	9.7	14.2
SUS @ 100°F	165	354	520	795
SUS @ 210°F	48	56	59	76
Viscosity Index(ASTM D-2270)	164	104	68	90
Pour Point (D-97), °F (°C)	-65 (-54)	-45 (-45)	-25 (-33)	-15 (-27)
Flash Point (D-92), °F (°C)	505 (264)	510 (266)	510 (266)	505 (264)
Autoignition point °F (°C)	770 (410)	770 (410)	775 (413)	765 (407)
Demulsibility @ 130 F (D-1401)				
Time for Separation, min	60	60	60	60
Oil/Water/Emulsion, ml	43/37/0	41/38/1	43/34/3	58/22/0
Four Ball Wear Test (D-2266)				
(1 Hour/75 C/1200 rpm/40 kg)	0.5	0.5	0.5	0.5
Scar Diameter, mm				
Carbon Residue, Conradson, % (D189)	0.08	0.04	0.01	0.01
Evaporation, 6.5 hours, 400F, %	8	5	4	3
Surface tension, dynes/cm @ 20 C	31.5	31.2	31	30.5
Thermal conductivity, cal/hr/cm2	1.2	1.3	1.3	1.4

* A 125 cSt grade is also available.

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

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