

PRODUCT DATA SHEET**COMPRESSOR LUBRICANT****ALTO SYN D****GENERAL DESCRIPTION**

Alto Syn D compressor lubricants are unique combinations of quality diester basestocks and the latest additive technology. BlueSky provides a wide range of Alto Syn D compressor lubricants that cover applications for rotary vane, rotary screw, and all ages and design types of reciprocating compressors. Alto Syn D compressor lubricants are especially noted for providing low temperature fluidity, better thermal conductivity which reduces operating temperatures, reduces friction providing approximately 20% lower coefficient of friction, high temperature thermal stability will not disassociate under thermal stress, greater resistance to mechanical stress will not shear under heavy loads or extreme stress, reduced metal-to-metal wear, polar properties provided better metal wetting, better demulsibility characteristics where as moisture separates readily, providing better rust and corrosion protection and ultimately more energy efficiency. These lubricants are designed for use in the crankcase and as a cylinder lubricant. They are compatible with almost all elastomers used in compressors and pumps, including paint used in crankcases.

APPLICATION

Alto Syn D 32 is recommended for use in the following applications:
Centrifugal Compressors, Certain rotary screw & vane compressors, Low temperature lubrication, High temperature lubrication, General lubrication for applications requiring an ISO 32 lubricant

Alto Syn D 68 is recommended for use in the following applications:
Rotary screw and vane compressors, Ball and roller bearings, Low temperature lubrication, High temperature lubrication, Mist lubrication systems, General lubrication for applications requiring an ISO 68 lubricant

Alto Syn D 100 is recommended for use in the following applications:
Reciprocating compressors, Rotary vane compressors, Ball and roller bearings, Low temperature lubrication, High temperature lubrication, General lubrication for applications requiring an ISO 100 lubricant

Alto Syn D 125 and Alto Syn D 150 are recommended for the following applications:
Reciprocating compressors, Rotary vane compressors, Ball and roller bearings, Low temperature lubrication, High temperature lubrication, General lubrication for applications requiring an ISO 150 lubricant

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NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suit ability. Product typical this publication are current as of November 24, 2010.

Physical Properties

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ALTO SYN D	32	46	68	100	125	150
ISO Viscosity Grade	32	46	68	100	125	150
Viscosity: @ 40°C, cSt	30.5	42.0	64.0	97.0	125	154
@ 100°C, cSt	4.90	5.74	8.30	10.8	13.3	15.5
Viscosity Index	73	66	97	94	103	101
Specific Gravity	0.941	0.965	0.964	0.961	0.957	0.956
Density lbs/gal	7.837	8.037	8.037	8.008	7.975	7.962
Pour Point, °F(°C)	-65 (-54)	-65 (-54)	-40 (-40)	-30 (-34)	-38 (-39)	-30 (-34)
Flash Point, °F(°C)	490 (254)	475 (246)	490 (254)	495 (257)	495 (257)	505 (263)
Autoignition Point °F(°C)	765 (407)	720 (373)	765 (407)	780 (416)	785 (418)	785 (418)
Copper Corrosion	1A	1A	1A	1A	1A	1A