

Compressor Oil Technical Data Sheet

Compressors are widely used throughout industry and a quality lubricant is critical for reliable performance. There are several types of compressors, and Zschimmer & Schwarz offers synthetic ester base fluids that can be formulated into high quality lubricants for different compressor applications.

In most compressors and pumps, the fluid film is in the hydrodynamic regime, so the fluid viscosity is the most important factor in providing adequate lubrication. High quality synthetic esters are preferred when the application demands clean operation, elevated temperature, extended drain or other advanced performance characteristics.

Air compressor lubricants encounter a severe oxidizing environment because compression increases both the temperature and availability of oxygen. All compressor grade synthetic esters have excellent oxidative stability and low volatility so they reduce varnish buildup and minimize organic vapors in the compressed gas.

Reciprocating and rotary vane compressors take advantage of the inherent lubricity and solvency of diesters and trimellitates while rotary screw and centrifugal fluids benefit from the extreme oxidative stability of polyol esters. Refrigeration grades (SRL) have optimized miscibility with the refrigerant gas and must remain fluid at low temperature.

Synthetic Ester	Chemistry	Viscosity @40 °C(cSt)	Viscosity @100 °C(cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
Lexolube 2I-214	Polyol	6	2	125	190	-60
Lubricit DIOA	Diester	9	3	145	215	-70
Lubricit DIDA	Diester	13	4	145	220	-55
Lubricit TMP C9	Polyol	21	5	140	285	-30
Lexolube FG-22 HX1*	Polyol	22	5	140	250	-50
Lubricit DTDA	Diester	22	5	150	245	-55
Lexolube 2X-109	Diester	27	5	140	260	-60
Lexolube FG-46 HX1*	Polyol	46	8	135	270	-45
Lexolube PQ-68*	Polyol	68	9	105	250	-30
Lexolube FG-68 HX1*	Polyol	68	10	125	290	-45
Lubricit 9505	Diester	88	13	150	325	-65
Lubricit 3010	Trimellitate	135	13	80	280	-30
Lubricit DPE 89*	Polyol	310	23	90	300	-10
Lubricit 3013/1	Trimellitate	320	20	70	290	-30
Lexolube FG-350 HX1*	Polyol	350	24	85	300	-20
Lexolube CLG-460	Complex	460	43	135	285	-25
Lexolube CP-460LC	Complex	460	46	150	290	-25

Features

- ▶ Thermal/oxidative stability
- ▶ Low volatility
- ▶ High flash point
- ▶ Clean performance
- ▶ Low temperature fluidity
- ▶ Long service life

Applications

- ▶ Air compressors
- ▶ Refrigeration/SRL
- ▶ Flooded rotary screw
- ▶ Rotary vane
- ▶ Reciprocating
- ▶ Centrifugal

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