



CITGO COMPRESSOR GARD® DE

Date 1/09

DESCRIPTION: CITGO CompressorGard DE lubricants are formulated from premium diester base stocks and incorporate the latest developments in additive technology. They are designed to satisfy the lubrication requirements for most air compressors in service today.

BENEFITS: CITGO CompressorGard DE lubricants are engineered to provide superior oxidation and thermal characteristics which, when compared with mineral oils, offer the following:

- Better low temperature fluidity for cold climate operations.
- Better thermal conductivity reduces lubricant operating temperatures, extending fluid service.
- Less wear due to lower friction coefficient.
- Greater resistance to thermal or mechanical stress creates fewer deposits, reducing maintenance.
- Reduced oil carryover and reduced valve deposits due to low vapor pressure.

CITGO CompressorGard DE lubricants have low toxicity and are generally more biodegradable than mineral oil based lubricants.

APPLICATIONS: CITGO CompressorGard DE 32 and 68 are recommended for use in oil flooded rotary vane and screw type air compressors where these viscosity fluids are needed. The high thermal stability and oxidation stability minimize the formation of deposits, sludge and lacquers, especially in the heat exchangers.

CITGO CompressorGard DE 100, 125 and 150 are especially designed for both the crankcase and cylinder lubrication of reciprocating compressors. The combination of low volatility and excellent thermal and oxidation stability provide for significantly cleaner discharge valves. Cleaner valves mean reduced maintenance and reduced risk of compressor fires or explosions caused by these deposits.

MATERIALS COMPATIBILITY

Materials	Recommended	Not Recommended
Seals	Fluorocarbon, Fluorosilicone, Nitrile Buna N (>30%), Polysulfide, Teflon, Viton®	Butadiene, Butyl, Ethyl Propylene, Isoprene, Natural Rubber, Neoprene, Nitrile Buna N (<30%), Polyacrylate, Polyacrylic, SBR Rubber
Paints	Epoxy, Oil Resistant Alkyd	Acrylic, PVC
Plastics	Celcon, Delrin, Fluorocarbon, nylon	Polystyrene, PVC, ABS, polycarbonate

Viton is a registered trademark of DuPont Dow Elastomers.

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TYPICAL PROPERTIES:

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ISO Viscosity Grade	32	68	100	125	150
Material Code	632523001	632525001	632526001	632527001	632528001
SAE Grade	10	20	30	40	40
Specific Gravity	0.9557	0.9642	0.9592	0.9617	0.949
Gravity, ASTM D 4052, °API	16.6	15.2	16.0	15.5	17.5
Density, lb/gal	7.96	8.03	7.99	8.02	7.93
Viscosity, cSt at 40 °C	33.4	62.0	94.7	120.3	149.5
cSt at 100 °C	5.27	7.00	9.40	14.32	12.3
Viscosity Index	83	55	67	119	61
Flash Point, ASTM D 92, °F (°C)	493 (256)	522 (272)	554 (290)	532 (278)	511 (266)
Fire Point, ASTM D 92, °F (°C)	543 (284)	561 (294)	572 (300)	554 (290)	568 (298)
Pour Point, ASTM D 97, °F (°C)	<-69 (<-56)	-38 (-39)	-33 (-36)	-38 (-39)	-33 (-36)
Color, ASTM D 1500	L1.0	L1.0	L1.0	L1.0	L1.0
Carbon Residue, ASTM D 524, %	0.11	0.09	0.09	0.09	0.09
Four Ball Wear, ASTM D 2266					
mm at 20 kg	0.66	0.60	0.42	0.59	—
mm at 40 kg	0.68	0.68	0.68	0.66	0.44