CITGO® CompressorGard® DE

OVERVIEW

- Premium diester base stocks and the latest developments in additive technology satisfy the lubrication requirements for most air compressors in service today.

FEATURES & BENEFITS

- Engineered to provide oxidation and thermal characteristics superior to mineral oils.
- 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 reduces deposits, sludge, and lacquer, especially in heat exchangers, reducing maintenance.
- Reduced oil carryover and valve deposits due to low vapor pressure and increased solvency.
- Cleaner valves result in reduced maintenance and reduced risk of compressor fires or explosions caused by these deposits.

APPLICATIONS

- CITGO CompressorGard DE 68 is recommended for use in oil-flooded rotary vane and screw type air compressors where the viscosity is needed.
- CITGO CompressorGard DE 125 and 150 are designed for both the crankcase and cylinder lubrication of reciprocating compressors, where low volatility and excellent thermal and oxidation stability provide for significantly cleaner discharge valves.

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

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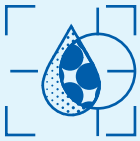
PROPERTIES



Typical Properties for CITGO CompressorGard DE:

ISO Viscosity Grade	68	100	125	150
Material Code	**632525001**	**632526001**	**632527001**	**632528001**
Specific Gravity	0.9642	0.9592	0.9617	0.949
Gravity, ASTM D4052, °API	15.2	16.0	15.5	17.5
Density, lb/gal	8.03	7.99	8.02	7.93
Viscosity				
cSt at 40°C	62.0	94.7	120.3	149.5
cSt at 100°C	7.00	9.40	14.32	12.3
Viscosity Index	55	67	119	61
Flash Point, ASTM D92, °F (°C)	522 (272)	554 (290)	532 (278)	511 (266)
Fire Point, ASTM D92, °F (°C)	561 (294)	572 (300)	554 (290)	568 (298)
Pour Point, ASTM D97, °F (°C)	-38 (-39)	-33 (-36)	-38 (-39)	-33 (-36)
Color, ASTM D1500	L1.0	L1.0	L1.0	L1.0
Carbon Residue, ASTM D524, %	0.09	0.09	0.09	0.09
Four Ball Wear, ASTM D4172				
mm at 20 Kg	0.60	0.42	0.59	—
mm at 40 Kg	0.68	0.68	0.66	0.44

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