



CITGO COMPRESSORGARD® PAO

Date 1/09

DESCRIPTION: CITGO CompressorGard PAO lubricants are formulated with high-quality polyalphaolefin (synthesized hydrocarbon) base fluids and incorporate technologically advanced additives. This base fluid makes CITGO CompressorGard PAO lubricants the most cost-effective lubricants currently available. Lower deposit forming tendencies and high flash points lead to fewer compressor fires. They have other important characteristics that lead to safe, effective and efficient compressor performance. Available in ISO grades 32, 46, 68, 100 and 150.

- BENEFITS:**
- Greatly reduced danger of fire and explosions
 - Outstanding oxidation and thermal stability
 - Exceptionally low pour point
 - Low varnish-forming tendencies
 - Wide operating temperature range
 - High viscosity index
 - Excellent antiwear properties
 - Extended service life
 - Lower maintenance costs
 - Excellent rust protection
 - Fully compatible with elastomers, paints, seals and petroleum oil
 - Low toxicity
 - Excellent demulsibility

APPLICATIONS: CITGO CompressorGard PAO lubricants are designed for use with the following types of compressors: Rotary Vane, Rotary Screw and Centrifugal.

Rotary Compressors — Rotary vane and rotary screw compressors are lubricated by injecting the oil directly into the airstream where it is in intimate contact with high-temperature air. The excellent thermal and oxidation properties of CITGO CompressorGard PAO lubricants make them ideal to guard against sludge and varnish deposit formation and accumulation. They give outstanding performance in maintaining a cleaner compressor interior, which means reduced component wear and, thus, increased compressor efficiency and safety.

Centrifugal Compressors — Centrifugal (Dynamic) compressors are often mated with integral gear sets, requiring a lubricant with good load carrying ability and low foaming tendencies. These compressors are often remotely located. CITGO CompressorGard PAO lubricants contain a carefully selected and proven additive package and low vapor forming tendencies to assure that peak performance, with minimal maintenance, can be achieved over an extended drain interval and extended compressor life when compared to petroleum oil.

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TYPICAL PROPERTIES:

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ISO Grade	32	46	68	100	150
Material Code	632531001	632532001	632533001	632534001	632535001
SAE Grade	10	20	30	40	50
API Gravity	36.6	35.8	36.4	35.8	34.8
Specific Gravity	0.842	0.847	0.843	0.847	0.851
Density, lb/gal, 60/60°F	7.01	7.04	7.02	7.04	7.09
Viscosity, ASTM D 445, cSt at 40°C	30.22	43.38	66.33	98.35	153.98
cSt at 100°C	5.77	7.48	10.26	14.10	20.22
Viscosity Index, ASTM D 2270	136	139	141	147	152
Flash Point, ASTM D 92, °F (°C)	522 (272)	504 (262)	543 (284)	550 (288)	550 (288)
Pour Point, ASTM D 97, °F (°C)	-87 (-66)	-71 (-57)	-65 (-54)	-65 (-54)	-54 (-48)
Color, ASTM D 1500	L0.5	L0.5	L0.5	L0.5	L0.5
Copper Corrosion, ASTM D 130	1A	1A	1A	1A	1A
Rust Protection, ASTM D 665					
DI Water	Pass	Pass	Pass	Pass	Pass
Salt Water	Pass	Pass	Pass	Pass	Pass
Four Ball Wear, ASTM D 4172, Mm at 40 Kg	0.41	0.42	0.30	0.32	0.33
Foam Resistance, ASTM D 892					
Seq 1	0/0	0/0	0/0	0/0	0/0
Seq 2	0/0	0/0	10/0	10/0	10/0
Seq 3	0/0	0/0	10/0	0/0	0/0
Water Separation, ASTM D 892					
mL of Oil	40	40	40	40	40
mL of Water	40	40	40	40	40
ml of Emulsion	0	0	0	0	0
Time	5	10	10	10	15
Carbon Residue, mg	0.02	0.02	0.04	0.03	0.04

CompressorGard PAO lubricants are not compatible with silicone or polyalkylene glycol compressor lubricants. Consider CompressorGard PAG lubricants when compressing gases with condensed hydrocarbon liquids.