



CITGO® CompressorGard® PAO

OVERVIEW



- High-quality polyalphaolefin (synthesized hydrocarbon) base fluids with technologically advanced additives to provide effective and efficient compressor performance.
- Available in ISO grades 32, 46, 68, 100, and 150.

FEATURES & BENEFITS



- Reduced danger of compressor fire and explosions that result from deposit formation.
- Outstanding oxidation and thermal stability.
- Exceptionally low pour point.
- Low varnish-forming tendencies.
- Wide operating temperature range.
- High viscosity index.
- Excellent anti-wear properties.
- Extended service life.
- Lower maintenance costs.
- Excellent rust protection.
- Fully compatible with elastomers, paints, seals, and petroleum oil.
- Low toxicity.
- Excellent demulsibility.

APPLICATIONS



- Designed for use with rotary vane, rotary screw, and centrifugal compressors.
- In rotary vane and rotary screw compressors, ideal to guard against sludge and varnish deposit formation and accumulation that occurs when oil is injected directly into the high-temperature airstream. The cleaner compressor interior results in reduced component wear and increased safety and efficiency.
- In centrifugal (dynamic) compressors, the proven additive package and low vapor-forming tendencies ensure excellent performance over an extended drain interval, as compared to petroleum oil. Often remotely located and mated with integral gear sets, centrifugal compressors require a lubricant with good load-carrying ability and low foaming tendencies.

PROPERTIES



Typical Properties for CITGO CompressorGard PAO:

ISO Grade	32	46	68	100	150
Material Code	632531001	632532001	632533001	632534001	632535001
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 D445					
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 D2270	136	139	141	147	152
Flash Point, ASTM D92, °F (°C)	522 (272)	504 (262)	543 (284)	550 (288)	550 (288)
Pour Point, ASTM D97, °F (°C)	-87 (-66)	-71 (-57)	-65 (-54)	-65 (-54)	-54 (-48)
Color, ASTM D1500	L0.5	L0.5	L0.5	L0.5	L0.5
Copper Corrosion, ASTM D130	1B	1B	1B	1B	1B
Rust Protection, ASTM D665					
DI Water	Pass	Pass	Pass	Pass	Pass
Salt Water	Pass	Pass	Pass	Pass	Pass
Four Ball Wear, ASTM D4172, mm at 40 Kg	0.41	0.42	0.30	0.32	0.33
Foam Resistance, ASTM D892, Sequence I, II, III	Pass	Pass	Pass	Pass	Pass
Water Separation, ASTM D1401					
at 130°F (54°C)	40/40/0 (5)	40/40/0 (10)	40/40/0 (10)	—	—
at 180°F (82°C)	—	—	—	40/40/0 (10)	40/40/0 (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.

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