

CITGO CITGEAR® SYNTHETIC PAG
GEAR FLUIDS



Date 03/18

DESCRIPTION: CITGO CITGEAR Synthetic PAG Gear Fluids are premium polyalkylene glycol lubricants formulated to provide excellent performance in gear boxes, worm gears, bearings, blowers, reciprocating compressors, and hydraulic systems beyond the capabilities of mineral oils.

QUALITIES: CITGO CITGEAR Synthetic PAG Gear Fluids offer:

- Outstanding thermal and oxidative stability, and resistance to sludge and deposit formation.
- High viscosity indexes and low pour points allow for a greater useable temperature range.
- Low coefficients of friction, for potential energy savings.
- Excellent heat transfer properties for cooler running machinery.
- Multipurpose industrial equipment capability.
- CITGO CITGEAR Synthetic PAG Gear Fluids are compatible with most seal materials in use today, for best results contact your seal manufacturer.

APPLICATIONS: CITGO CITGEAR Synthetic PAG Gear Fluids are not miscible with mineral oils and should not be used as make-up for systems filled with conventional mineral oils. Mineral oils should not be used as top-off for systems which contain CITGEAR Synthetic PAG Gear Fluids. CITGEAR Synthetic PAG fluids are hygroscopic and do not separate from water. As a result, water does not settle to the bottom of the systems reservoir.

The CITGO CITGEAR Synthetic PAG Gear Fluids are designed for use in:

- Heavy Duty Worm Gears
- Plain and Rolling Contact Bearings
- Industrial Enclosed Gears
- High Temperature Paper Machine Bearings
- Reciprocating and Rotary Screw Air and Natural Gas Compressors
- Plastic Calendar Operations

TYPICAL PROPERTIES:

CITGO CITGEAR® SYNTHETIC PAG GEAR FLUIDS

ISO GRADE	100	150	220	320	460
Material Code	632543001	632544001	632547001	632548001	632549001
Specific Gravity	1.046	1.047	1.05	1.056	1.057
Density, lb/gal	8.69	8.72	8.75	8.78	8.80
Viscosity, ASTM D445, cSt at 40°C	107.6	154.1	222.2	301.7	390.5
cSt at 100°C	21.1	29.3	41.0	54.3	68.8
Viscosity Index, ASTM D2270	223	232	239	247	253
Pour Point, ASTM D97, °F (°C)	-54 (-48)	-49 (-45)	-44 (-42)	-44 (-42)	-38 (-39)
Flash Point, ASTM D92, °F (°C)	550 (288)	547 (286)	554 (290)	558 (292)	558 (298)
Rust Protection, ASTM D665, A/B	Pass	Pass	Pass	Pass	Pass
4-Ball Weld, ASTM D4172, mm at 40kg	0.36	0.30	0.32	0.31	0.30

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