



# CITGO® CITGEAR® Synthetic PAG Gear Fluids

## OVERVIEW



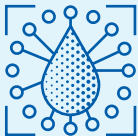
- Premium polyalkylene glycol lubricants formulated to provide excellent performance in gear boxes, worm gears, bearings, blowers, reciprocating compressors, and hydraulic systems beyond the capabilities of mineral oils.

## FEATURES & BENEFITS



- Outstanding thermal and oxidative stability, and resistance to sludge and deposit formation.
- High viscosity index and low pour point values allow for a greater useable temperature range.
- Low coefficients of friction for potential energy savings.
- Excellent heat transfer properties facilitate cooler operating temperatures for machinery.
- Multipurpose industrial equipment capability.
- Compatible with most seal materials in use today; for best results contact your seal manufacturer.

## APPLICATIONS



- Note: not miscible with mineral oils and not to 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. Unlike mineral oils, these fluids are hygroscopic and do not separate from water. As a result, water does not settle to the bottom of the system's reservoir.
- 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

**PROPERTIES****Typical Properties for CITGO CITGEAR Synthetic PAG Gear Fluids:**

<b>Grade</b>	<b>100</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>460</b>
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 Wear, ASTM D4172, mm at 40kg	0.36	0.30	0.32	0.31	0.30

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