CITGO CITGEAR® SYNTHETIC PAG GEAR FLUIDS

Date 08/11

DESCRIPTION: CITGO CITGEAR Synthetic PAG (polyalkylene glycol) Gear Fluids are premium products designed to provide optimum performance in gear boxes, worm gears, bearings, blowers, reciprocating compressors, and hydraulic systems well beyond the capabilities of mineral oils.

QUALITIES:
- 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, reduces operating temperatures, offering a potential energy savings.
- Multipurpose industrial equipment capability.

APPLICATIONS: CITGO CITGEAR Synthetic PAG Gear Fluids are compatible with most seal materials in use today, for best results contact your seal manufacturer.

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 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 D 445, 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 D 2270	223	232	239	247	253
Pour Point, ASTM D 97, °F (°C)	-54 (-48)	-49 (-45)	-44 (-42)	-44 (-42)	-38 (-39)
Flash Point, ASTM D 92, °F (°C)	550 (288)	547 (286)	554 (290)	558 (292)	558 (298)
Rust Protection, ASTM D 665, A/B	Pass	Pass	Pass	Pass	Pass
4-Ball Weld, ASTM D 4172, mm at 40kg	0.36	0.30	0.32	0.31	0.30