



# CITGO CITGEAR® XCO Oils

## OVERVIEW



- Premium lubricants that provide excellent bearing and gear lubrication performance in steel industry applications such as high-speed rod mills.

## FEATURES & BENEFITS



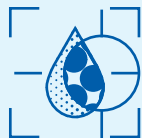
- Formulated with high-quality paraffinic base oils and additive system.
- Excellent oil/water separation to allow water removal from gear and bearing systems.
- High level of wear protection for critical machinery.
- Outstanding rust and corrosion protection in wet environments.
- Excellent oxidation stability for long service life.
- Premium anti-foam properties.
- High thermal stability minimizes formation of heat-related sludge and varnishes.

## APPLICATIONS



- Recommended for use in high-speed rod mill circulation systems and other gear and bearing lubrication applications.
- Recommended for use in Danieli and Morgan (Siemens AG) high-speed rod mills.

## PROPERTIES



## Typical Properties for CITGO CITGEAR XCO Oils:

Grade	100	220	320	460
Material Code	631100001	631102001	631103001	631104001
Gravity, ASTM D4052, °API	30.3	27.3	26.7	26.2
Density, lb/gal at 60°F	7.3	7.4	7.4	7.5
Flash Point, ASTM D92, COC, °F (°C)	482 (250)	522 (272)	561 (294)	554 (290)
Viscosity ASTM D445				
cSt at 40°C	92	220	320	447
cSt at 100°C	10.7	18.6	23.8	29.7
Viscosity Index, ASTM D2270	100	94	94	95
Pour Point, ASTM D97, °F (°C)	-6 (-21)	10 (-12)	10 (-12)	10 (-12)
Color, ASTM D1500	L1.0	L4.0	L4.0	L5.0
Rust Test, ASTM D665 A & B	Pass	Pass	Pass	Pass
Water Separation, ASTM D1401 at 180°F (ml Emulsion at 30 minutes)	3.0 max.	3.0 max.	3.0 max.	3.0 max.
Foam Test, ASTM D892, Seq. I, II, III	Pass	Pass	Pass	Pass
Four Ball Wear, ASTM D4172 mm @ 20 kg	0.38	0.34	0.37	0.30

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