



CITGO CITGEAR® XCO OILS

Date 06/15

DESCRIPTION: CITGO CITGEAR XCO Oils are premium lubricants that provide excellent bearing and gear lubrication performance in steel industry applications such as high speed rod mills.

BENEFITS: CITGO CITGO CITGEAR XCO Oils are formulated with high quality paraffinic base oils and additive systems that assure:

- Excellent oil/water separation which 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: CITGO CITGEAR XCO Oils are recommended for use in high speed rod mill circulation systems and other gear and bearing lubrication applications. CITGO CITGEAR XCO Oils are recommended for use in Danieli and Morgan (Siemens AG) high speed rod mills.

TYPICAL PROPERTIES:

CITGO CITGEAR® XCO OILS

Grade	100	220	320	460
Material Code	631100001	631102001	631103001	631104001
Gravity, ASTM D 4052, °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 D 92, COC, °F (°C)	482 (250)	522 (272)	561 (294)	554 (290)
Viscosity, ASTM D 445, cSt at 40°C	92	220	320	447
cSt at 100°C	10.7	18.6	23.8	29.7
Viscosity Index, ASTM D 2270	100	94	94	95
Pour Point, ASTM D 97, °F (°C)	-6 (-21)	10 (-12)	10 (-12)	10 (-12)
Color, ASTM D 1500	L1.0	L4.0	L4.0	L5.0
Rust Test, ASTM D 665 A and B	Pass	Pass	Pass	Pass
Water Separation, ASTM D 1401 at 180°F (ml Emulsion at 30 minutes)	3.0 Max.	3.0 Max.	3.0 Max.	3.0 Max.
Foam Test, ASTM D 892, Sequence I, II, III	Pass	Pass	Pass	Pass
Four Ball Wear, ASTM D 4172 mm @ 20 kg	0.38	0.34	0.37	0.30

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