



# CITGO® Rock Drill Oils

## OVERVIEW



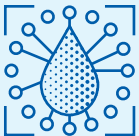
- Premium lubricants designed for the protection of pneumatic equipment subjected to excessive moisture or water spray.

## FEATURES & BENEFITS



- The following features of CITGO Rock Drill Oils work to ensure outstanding equipment protection:
- Excellent metal-wetting (preferential to water) and extra adhesiveness for more effective lubrication.
- Full extreme pressure (EP) wear protection, optimized with emulsification properties to guard against wear in high-moisture conditions.
- Protection against rust and corrosion.
- Anti-foaming, high viscosity index, low pour point, and excellent stability enhance lubrication of pneumatic equipment over a wide range of conditions.

## APPLICATIONS



- Recommended to meet the general requirements of major manufacturers of rock drills, jack hammers, and other types of pneumatic percussion equipment manufactured by Ingersoll-Rand, Gardner-Denver, Mincon, and others.
- Recommended for industrial and mining equipment working in humid or wet conditions.
- Refer to equipment owner's manual for proper lubricant recommendation.

## PROPERTIES



## Typical Properties for CITGO Rock Drill Oils:

ISO Grade	46	100	150	320
Material Code	633212001	633214001	633215001	633217001
Gravity, ASTM D4052, °API	32.4	30.6	29.6	27.9
Density, lb/gal at 60°F	7.20	7.28	7.31	7.44
Flash Point, ASTM D92, °F (°C)	421 (216)	450 (232)	455 (235)	460 (238)
Viscosity, ASTM D445				
cSt at 40°C	49	100	152	305
cSt at 100°C	7.9	12.2	16	25.3
Viscosity Index	129	115	110	108
Pour Point, ASTM D97, °F (°C)	-49 (-45)	-38 (-39)	-38 (-39)	-6 (-21)
Copper Corrosion, ASTM D130	1B	1B	1B	1B
Timken EP Test, ASTM D 2782, lbs.	45	60	60	60
Falex Load Test, ASTM D 3233, ft-lbs.	2000	2100	2100	2475
Four Ball Wear, Index (Weld Point), Kg	200	250	250	315
Steam Emulsion Number, seconds	>1200	>1200	>1200	>1200

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