

## ROCKDRILL 320

**Mineral oil based heavy-duty rock drill and hammer lubricant.**

### Description

ROCKDRILL series oils are specially formulated to lubricate the rotation gears on hydraulically powered machines and pneumatically powered rock drilling machines. ROCKDRILL is a range of mineral oil based products compounded with extreme pressure, anti-rust, anti-wear and anti-fogging additives to provide high film strength oils to lubricate all moving surfaces.

ROCKDRILL lubricants contain, as a first and unique feature in the drilling industry, additives designed to substantially reduce failure of drill bits due to the impact of humidity and high operating pressures causing seizure. ROCKDRILL oils are available in ISO viscosity grades 150 and 460. Plus an ISO VG 320 with molybdenum disulfide for more demanding applications.

### Application

ROCKDRILL 320 is recommended for large pneumatic hammers. As a general rule, the following consumption applies based on maximum air pressure of 350 psi (2400 kPa).

Hole size (mm)	Volume (L/h)
92 – 127	1.5 – 2.5
190 – 215	2.5 – 3.0
215 – 222	3.0 – 3.5

NOTE: Efficient operation of all pneumatic tools depends on a supply of clean air at the rated pressure. An air filter should be installed in the line even though the tool itself will usually have its own filter.

### Advantages/Benefits

- Increased tool life over conventional lubricants
- Superior adhesion due to tacky additives with greater resistance to washing action of water than conventional products
- Increased drilling penetration due to efficient lubrication
- Reduced downtime in changing drill bits
- Reduces failure of drill bits in deep mining operations due to sudden expansion of compressed air mixed with atmospheric moisture at the bit end, eliminating the "freezing" effect
- Excellent extreme pressure lubrication - provides wear protection to moving parts under extremes of temperature and pressure
- High operating viscosity - retains at high temperatures, ensuring effective sealing and optimum performance of the hammer
- Reduced injection rates with no reduction in lubrication of the hammer

# Product Information



## CHARACTERISTICS

Appearance	Visual	Amber Fluid	-
Viscosity Grade	ISO 3448	320	-
Density @ 15 °C	DIN 51757	0.89	Kg/L
Flash Point, PMCC	ASTM D93	>200	°C
Pour Point	FLTP* 124	-18	°C
Kinematic Viscosity @ 40 °C	ASTM D445	320	cSt
Kinematic Viscosity @ 100 °C	ASTM D445	24.8	cSt
Viscosity Index	ASTM D2270	99	-
Total Acid Number	ASTM D974	0.2	mg KOH/g
Rust Preventing Characteristics	ASTM D 665	Pass A&B	-
Corrosiveness to copper	ASTM D130	1b	degree of corr.
Four-Ball EP Test, Weld Load	ASTM D2783	500	kgf
Four-Ball Wear Scar Diameter	ASTM D4172	0.42	mm
FZG mechanical gear test rig FZG A/8,3/90	DIN 51 354-2	12+	failure load

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