



Rock Drill Oils

Bel-Ray® Rock Drill Oils are an adhesive, extreme-pressure (EP) lubricant specially developed for the lubrication of air-powered tools such as rock drills, jackhammers, pavement breakers and drifters. It also is recommended for the lubrication of mining and industrial equipment operating in wet environments. Bel-Ray Rock Drill Oils are formulated with high-quality paraffinic base oils and a specially tailored additive package to provide excellent protection for pneumatic percussion tools. It has high load-carrying capacity to protect against wear and seizure of sliding metal surfaces under heavy or shock-load conditions. It has good adhesion to metal surfaces in the presence of moisture, and provides protection against rust and corrosion. It also has good oxidation resistance and thermal stability at high temperatures for long service life.

EQUIPMENT BENEFITS

- Excellent extreme-pressure properties
- Good adhesion to metal surfaces in the presence of moisture
- Resists dripping and leakage
- Good oxidation resistance and thermal stability protect against rust and corrosion
- Low odor
- Good foam resistance
- Seven viscosity grades for use over a wide range of temperatures

PRODUCT FEATURES

- Excellent lubricant for air-operated tools such as jack hammers, pavement breakers, etc
- May be used in industrial machine shop application including gear sets and can be used in both plain and anti-friction bearings
- Oxidation stability, extreme pressure characteristics, and high film strength all combine to provide excellent corrosion protection and shock load

APPLICATIONS

- Pneumatic percussion tools such as jackhammers, pavement breakers and rock drills
- Mining equipment such as demolition hammers, chipping hammers and drifters
- Enclosed industrial gearboxes where leakage is a problem

Rock Drill Oils
Typical Physical Properties

Property	Test Method	46	68	100	150	220	320
Density @ 15°C, g/cm ³	ASTM D4052	0.868	0.905	0.916	0.905	0.911	0.903
API GRAVITY @ 60°F	ASTM D4052	31.5	24.9	22.9	24.8	23.85	25.3
Viscosity @ 40°C, cSt	ASTM D445	46	68	100	150	220	320
Viscosity @ 100°C, cSt	ASTM D445	6.8	8.7	11.2	14.9	19.4	24.4
Viscosity Index	ASTM D2270	102	99	97	99	100	97
Flash Point, °C (°F)	ASTM D93	196 (385)	178 (352)	186 (367)	181 (358)	195 (383)	196 (385)
Pour Point, °C (°F)	ASTM D97	-39 (-38)	-39 (-38)	-36 (-33)	-30 (-22)	-27 (-17)	-15 (5)
Phosphorous, wt%	ASTM D6481	0.015	0.015	0.015	0.015	0.015	0.015
Pounds per Gallon	ASTM D1250	7.228	7.534	7.632	7.539	7.587	7.517

Minor variations in typical physical properties may occur from normal manufacturing processes

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