



Rock Drill Oil

Rock Drill Oil is 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.

Rock Drill Oil is 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.

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

Features/Benefits

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

**Adhesive,
Extreme-Pressure
Air Tool Lubricant**

CONTACT INFORMATION

**Phillips66
Lubricants.com**

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1-800-368-7128

Technical Hotline:
1-877-445-9198

International
Customer Service:
1-832-765-2500

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**lubricants@
p66.com**



Rock Drill Oil Typical Properties

ISO Grade	32	46	68	100
Specific Gravity @ 60°F	0.863	0.868	0.872	0.876
Density, lbs/gal @ 60°F	7.19	7.22	7.26	7.30
Color, ASTM D1500	1.5	1.5	2.5	2.5
Flash Point (COC), °C (°F)	198 (388)	215 (419)	222 (432)	222 (432)
Pour Point, °C (°F)	-37 (-35)	-37 (-35)	-27 (-17)	-27 (-17)
Viscosity,				
cSt @ 40°C	32.0	46.0	68.0	100
cSt @ 100°C	5.7	7.2	9.2	12.3
SUS @ 100°F	165	236	351	518
SUS @ 210°F	45.3	50.3	57.3	68.8
Viscosity Index	119	117	112	115
Acid Number, ASTM D664, mg KOH/g	0.68	0.68	0.68	0.68
Falex EP Load, ASTM D3233, lbf	4,225	4,225	4,225	4,225
Four-Ball Wear, ASTM D4172,				
Scar Diameter, mm	0.37	0.37	0.37	0.37
Four-Ball Weld Load, ASTM D2783, kgf	315	315	315	315
Rust Test, ASTM D665 A	Pass	Pass	Pass	Pass
Timken OK Load, ASTM D2782, lb	70	70	70	70

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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Rock Drill Oil

Typical Properties

ISO Grade	150	220	320	460
Specific Gravity @ 60°F	0.881	0.886	0.890	0.895
Density, lbs/gal @ 60°F	7.34	7.38	7.41	7.45
Color, ASTM D1500	3.0	3.5	4.0	4.5
Flash Point (COC), °C (°F)	228 (442)	234 (453)	243 (469)	243 (469)
Pour Point, °C (°F)	-21 (-6)	-18 (0)	-18 (0)	-11 (12)
Viscosity,				
cSt @ 40°C	150	220	320	447
cSt @ 100°C	15.7	20.2	25.2	31.7
SUS @ 100°F	784	1,158	1,698	2,385
SUS @ 210°F	82.6	102	125	155
Viscosity Index	108	106	102	102
Acid Number, ASTM D664, mg KOH/g	0.68	0.68	0.68	0.68
Falex EP Load, ASTM D3233, lbf	4,225	4,225	4,225	4,225
Four-Ball Wear, ASTM D4172,				
Scar Diameter, mm	0.37	0.37	0.37	0.37
Four-Ball Weld Load, ASTM D2783, kgf	315	315	315	315
Rust Test, ASTM D665 A	Pass	Pass	Pass	Pass
Timken OK Load, ASTM D2782, lb	70	70	70	70

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

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