



Super S[®] Rock Drill Oil

Super S[®] Rock Drill Oils are premium, compounded lubricants formulated for mining equipment under both wet and dry conditions. They contain rust and oxidation inhibitors, EP additives and tackifier agent making them especially suitable to lubricate and cool pneumatic percussion tools and air operated rock drills. Blended from ultra-pure hydrocracked base stocks to give the best possible performance in tough rock drill applications where equipment responsiveness is of the utmost importance.

The excellent film forming ability of **Super S[®] Rock Drill** fluids provide good lubricity and reduce scoring failures during sudden high pressure sliding and repeated heavy loads. Pneumatic percussion equipment are usually operated at very high cubic foot per minute (CFM) air flow rates. The excellent shear stability and tacky nature helps **Super S[®] Rock Drill** oils to adhere to metallic surfaces and resist thinning due to shear.

The tackifier found in **Super S[®] Rock Drill** oil is specially selected to provide low misting properties and optimized adhesion to the specific alloys found in modern mining equipment. Misting in mines leads to environmental concerns as hydrocarbon based fluids are released into the ground by way of spray off. Reducing misting in pneumatic equipment not only reduces wear and extends equipment life, but also reduces environmental impact.

APPLICATIONS

- Pneumatic tools: Rock Drills, jackhammers, tampers, asphalt breakers, drifters
- Bearings in wet operating environments
- Chain drives
- Gear sets with spur, bevel, spur bevel, spiral bevel or herringbone gears

SPECIAL HANDLING, NOTICES OR WARNINGS

Use the same care and handling as for any petroleum product.

FEATURES/ BENEFITS

- Developed for lubricating industrial pneumatic and mining equipment operating in both wet and dry environments
- Available in viscosity grades from ISO VG 46 to ISO VG 460
- Excellent oxidation resistance and thermal stability
- Provides EP (extreme pressure) and anti-wear performance
- Rust and corrosion protection for both ferrous and non-ferrous metals
- Fast emulsifiers to minimize failures due to water contamination
- Excellent performance in high load and/or extreme temperature operations
- High film strength and lubricity reduces scoring failures and wear due to prolonged use

RECOMMENDATIONS/SPECIFICATIONS

Ingersoll-Rand Rock Drill Oil Specification: Light, Medium and Heavy

Rock Drill 46 is specially formulated for all-season use

Rock Drill 68, 100 and 150 are used in underground mining operations and are classified as Manufacturers' Grade 20, 30 and 40 oils respectively.

Rock Drill 150 is recommended for Secan drills and in mining operations trying to reduce oil consumption and misting.

Rock Drill 220 is a Manufacturers' Grade 50 and is normally used in the summer in large bore drills (greater than 10 cm/ 4 inch), operating in open pit mines.

Gardner-Denver, Chicago Pneumatic Worthington, and Joy heavy-duty pneumatic rock drill applications

TYPICAL CHARACTERISTICS

Super S® Rock Drill Oil							
Property	Test Method ASTM -D	ISO Viscosity Grade					
		46	68	100	150	220	320
Gravity	1298	23.3	23.8	26.1	26.0	27.1	27.1
Flash Point, COC °C/°F	92	193/380	193/380	204/400	204/400	216/420	216/420
Pour Point, °C/°F	97	-12/10	-12/10	-12/10	-12/10	-9/15	-9/15
Color (max value)	1500	3.0	3.0	3.5	3.5	3.5	3.5
Viscosity	445						
cSt @ 40 °C		46	68	100	150	220	320
cSt @ 100 °C		6.6	8.8	11.0	13.1	14.4	23.8
Timken OK Load lb	2509	60+	60+	60+	60+	60+	60+
Steam Emulsion Number		1200	1200	1200	1200	1200	1200
Viscosity Index		95-100	95-100	95-100	95-100	95-100	95-100

Typical test data are average values only.

PRODUCT NUMBERS

ISO 46

SUS 308Bulk Bulk

ISO 68

SUS 190 55 gallon drum
 SUS 190Bulk Bulk

ISO 100

SUS 309 5 gallon pail
 SUS 310 55 gallon drum
 SUS 31011 Bulk