



Product Data Sheet

Rock Drill Oils

ISO VG 68, 100, 150 & 220

DESCRIPTION

Nemco Rock Drill Oil is made from a combination of straight paraffin oils and special additives and is formulated to lubricate and cool the mechanisms of air operated rock drills and other pneumatic equipment. These oils are available in four viscosity grades — ISO Viscosity Grade 68, 100, 150 and 220, allowing for selection of the proper viscosity grade for the intended application. These extreme pressure (EP) products exhibit high film strength to minimize wear at low feed rates. They are ideal for use in equipment running in demanding conditions with high air flow rates, heavy loads, and high piston temperatures. The high viscosity indexes allow more uniform rates by airline oilers, aiding in reduced consumption. This also ensures good low-temperature fluidity while providing adequate oil films on drill parts that may operate at higher temperatures.

Our Rock Drill Oils contain additives that effectively control emulsions and provide good preferential metal-wetting properties. These characteristics are necessary for proper lubrication if significant quantities of water are introduced with the compressed air, or by flushing water leakage. Rock Drill Oils will provide successful performance in the lubrication of water plunger pumps.

Applications

Nemco Rock Drill Oil is recommended for use in all pneumatically operated rock drills in both underground and surface mining as well as contractor and in-plant operations. Rock Drill Oils are especially recommended for rock drills requiring heavy-duty oils including those in which the rotation of the drill is independent of the percussion mechanism, utilizing a separate hydraulic or pneumatic motor with reduction gearing for rotation. These oils may be applied by hand oiling or integral oil reservoirs found in small units and by airline oilers and centralized lubrication systems on larger units. Rock Drill Oils are also suitable for the lubrication of water plunger pumps in oil and gas production service.

Advantages

- High film strength to minimize wear
- Good lubricity to reduce friction
- Effective lubrication in the presence of water
- Good rust and corrosion protection
- Non-toxic and non-irritating odour
- Excellent resistance to oxidation and gumming
- Minimum fog formation

Typical Characteristics – Rock Drill Oils

ISO Viscosity Grades	68	100	150	220
Viscosity cSt at 40°C cSt at 100°C	68 8.5	100 11.1	150 14.5	220 18.7
Viscosity index	94	96	94	93
Flash point °C (°F)	240 (464)	250 (482)	255 (491)	258 (496)
Rust protection, ASTM D665 A&B	Pass	Pass	Pass	Pass
Acid water rust test	Pass	Pass	Pass	Pass
Almen pin load test	Pass	Pass	Pass	Pass
Falex load test, ASTM D2670	Pass	Pass	Pass	Pass

Physical characteristics shown in the table are typical and may vary slightly.