

Mobil

Product Data Sheet

Mobil Almo 500 Series

Premium Pneumatic Tool Lubricants

Product Description

Mobil Almo 500 Series lubricants are premium quality products primarily intended for the lubrication of pneumatically operated rock drills in underground and surface mining operations. They are formulated from high quality base stocks and additives which provide excellent chemical stability and good protection against wear and corrosion. They do not form gummy deposits which could cause sluggish valve action. Their high viscosity indexes and low pour points ensure good lubrication at the low temperatures resulting from air expansion and guard against icing stoppages, while providing adequate oil films on drill parts that may operate at higher temperatures. Even in the presence of large amounts of water, the Mobil Almo 500 oils have good preferential metal-wetting properties and their adhesive nature and ability to emulsify water ensure the maintenance of continuous oil films to reduce wear and protect against rusting and corrosion. Oil fog generation levels are extremely low, and are both non-toxic and non-irritating with a bland, unobjectionable odor.

Benefits

Mobil Almo 500 Series lubricants offer the following benefits:

- Extended air tool life, reduced maintenance and repair costs
- Superior protection against wear and effective lubrication in the presence of water
- Good low temperature lubrication with fewer icing stoppages
- Good protection against rust and corrosion in the presence of water
- Reduced tendency to water wash-off in wet conditions
- Excellent resistance to oxidation and gumming
- Improved working environment due to minimum oil fog in confined spaces and non-toxic and non-irritating odor

Applications

Mobil Almo 500 Series oils are recommended for use in all pneumatically operated rock drills in both underground and surface mining as well as in contractor and other industrial applications. The Mobil Almo 500 Series are suitable for both percussive- and rotary-type tools. The four viscosity grades allow selection for year-round use where seasonal ambient temperature variations are extreme and in underground mines where face temperatures may vary widely.

Mobil Almo 525 is intended for light duty percussion/rotary air tools all year in heated industrial plants and as a winter grade rock drill lubricant.

Mobil Almo 527 is intended for medium to severe duty mine and quarry drilling and civil engineering applications.

Mobil Almo 529 is intended for severe working conditions (high tool temperature) below ground all year use.

Mobil Almo 532 is intended for severe duty operations in open pit mines, quarries and contractor applications except in winter.

The oils may be applied by hand oiling or integral oil reservoirs found in small units, and by air line oilers and centralized lubrication systems on larger units.

Mobil Almo 500 Series oils meet all tests and specifications established for heavy duty rock drill oils. They are approved by Ingersoll-Rand Company, Joy Manufacturing and others.

Typical Properties

Mobil Almo		525	527	529	532
Product Code		970924	970304	970603	971283
	Test Method				
ISO VG		46	100	150	320
Viscosity	ASTM D445				
cSt at 40°C		43	98	141	304
cSt at 100°C		7.0	11.3	14.7	24.0
Viscosity Index	ASTM D2270	100	100	100	95
Specific Gravity	ASTM D1298	0.881	0.900	0.901	0.910
Flash Point, °C	ASTM D92	209	210	216	231
Pour Point, °C	ASTM D97	-35	-27	-24	-18
Rust Protection	ASTM D665				
Distilled Water		Pass	Pass	Pass	Pass
Synthetic Sea Water		Pass	Pass	Pass	Pass
Color	ASTM D1500	2.5	3.5	5.5	5.5

Health & Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin contact areas with soap and water. Additional health and safety information on these products, including a Material Safety Data Bulletin, is available on request from your local Mobil company.