

EP MACHINE LUBE P

High-Performance Multi-Purpose Lubricant with Enhanced Extreme Pressure Properties

EP MACHINE LUBE P, with flash points above 250 °C, is a high-performance multipurpose lubricant with enhanced extreme pressure properties for machine tools and general industrial machines. Its outstanding performance meets the requirements for bearing oils and hydraulic oils for various machine tools and general industrial machinery, and it has extreme pressure performance equivalent to gear oils. Because **EP MACHINE LUBE P** (Flash point: 250 °C min.) is a multipurpose industrial oil, it is ideal for streamlining lubrication management in factories.

● SPECIAL FEATURES

1. Guaranteed Flash Points Above 250 °C

EP MACHINE LUBE P has guaranteed flash points above 250 °C.

2. Excellent Lubrication

EP MACHINE LUBE P is blended with superb extreme-pressure SP (Sulfur-Phosphorus) agents that offer extreme-pressure performance equal to or exceeding stage 12 of the FZG gear test. This performance is equivalent or superior to that of gear oils.

3. Long-Term Use

EP MACHINE LUBE P offers excellent thermal and oxidative stability, allowing for extended use under proper maintenance, such as preventing the entry of foreign matter.

4. Outstanding Rust Prevention

EP MACHINE LUBE P is formulated with high-quality antirust additives and corrosion inhibitors, ensuring protection against rust and corrosion in both the lubrication system and gears.

5. Additional Features

EP MACHINE LUBE P exhibits excellent water separability and anti-foaming properties, making oil management extremely easy.

● GRADES

EP MACHINE LUBE P is available in four ISO viscosity grades: 100, 150, 220, and 320. Users can select the appropriate grade according to their specific usage conditions.

● Handling Requirements for Liquids (Flash Point: 250°C Min.) Under Japan's Fire Service Law

1. Under the Fire Service Law, when liquids (flash point: 250°C min.) are stored together with hazardous materials, they must be kept at least one meter apart.

2. For quantities of 2 kL and above, liquids (flash point: 250°C min.) are considered "Designated Hazardous Materials" and are subject to municipal regulations in Japan. Be sure to familiarize yourself with the rules and regulations in your area.

● APPLICATIONS

1. Lubrication for various types of large machine tools (bearings, hydraulics)
2. Lubrication of bearings susceptible to rust and oil degradation
3. Lubrication for various types of hydraulic systems
4. Lubrication of bearings for calender rolls used in enlarging rubber and resin
5. Lubrication of bearings for steel and nonferrous metal rolling mills
6. Lubrication of bearings for electric motors, generators, pumps, fans, etc.

● CONTAINERS

200-liter drum and 20-liter can

● TYPICAL PROPERTIES OF EP MACHINE LUBE P

ISO viscosity grade			100	150	220	320
Color	(ASTM)		L1.0	L2.0	L2.0	L2.5
Density	(15°C)	g/cm ³	0.885	0.889	0.893	0.897
Kinematic viscosity	(40°C)	mm ² /s	99.0	150	220	314
	(100°C)	mm ² /s	11.2	14.9	19.3	24.5
Viscosity index			98	99	99	99
Flash point	(COC)	°C	262	274	284	298
Pour point		°C	-25.0	-25.0	-20.0	-17.5
Acid number		mgKOH/g	0.09	0.08	0.08	0.09
Copper strip corrosion(100°C,3h)			1	1	1	1
Rust prevention (distilled water,60°C,24 h)			No rust	No rust	No rust	No rust

Note: The typical properties may be changed without notice. (October 2025).

● Handling Precautions

- **For the handling of this product:** Please read the Safety Data Sheet (SDS) for this oil and the handling precautions listed on the product container carefully before use.
- **Regarding obtaining the SDS:** Please note that Safety Data Sheets (SDS) should be obtained via commercial channels and cannot be provided by the ENEOS Customer Center.
- The properties and performance listed are based on measurements and insights from our testing methods and do not guarantee accuracy or completeness. The typical properties may be changed without notice.