

Lubricant Product Information

Idemitsu Eponex IM

~Grease for industrial machinery with excellent extreme pressure and wear resistance, fretting characteristics, and pumping property ~

1. Applications

This grease is high-quality lithium soap grease based on refined mineral oil. Used for a wide range of grease-lubricated locations such as ball screws, linear guides, and toggle mechanism parts of various industrial machinery. In addition, the grease has the excellent wear resistance, extreme pressure, pumping property, and metal corrosion resistance required for grease.

In particular, it performs excellent friction characteristics at high temperatures and can be used for a centralized grease supply system.

2. Features

- (1) Excellent extreme pressure and wear resistance to suppress fretting wear due to fine vibration of the machine.

Ball screw parts of industrial machinery require extreme pressure and wear resistance because of high load.

- (2) Excellent pumping property, enabling use in centralized grease supply systems.

Since grease is supplied to each location through thin pipes and valves, good pumpability is required.

- (3) Good corrosion resistance.

Excellent corrosion resistance to metals such as copper and copper alloys used for grease piping.

3. Precautions pertaining to usage

- (1) The original performance may not be attained under mixed use conditions with different grease.

- (2) Install the cartridge so that air does not get caught when replacing it. Air contamination may cause a pressure feed failure.

4. Typical Specifications

Analysis items (unit, measurement conditions)			Representative value	Test method
Thicker			Lithium	-
Base oil type			Mineral oil	-
Color tone			Light yellow	-
Worked penetration	-	25°C,60W	325	JIS K2220 7.
Dropping point	°C	-	205	JIS K2220 8.
Copper plate corrosion	-	100°C,24hr	Pass	JIS K2220 9.
Apparent viscosity	Pa · s	0°C 10s ⁻¹	70	JIS K2220 19
High-speed four-ball wear resistance Performance test	Mm	75°C,392N, 1200rpm,60min	0.40	ASTM D 2266
High-speed four-ball Extreme pressure Performance test (WL)	N	1800rpm,10s	3089	ASTM D 2596
Fafner test (Fretting test)	Mg	Room temp. 22 hr	3.1	ASTM D 4170

5.Package

700g x 6 pcs (Cartridge)

- Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provide in the Safety Data Sheet (SDS) are followed.
- SDS is available upon request through your sales contract office, or via the internet.
<https://www.idemitsu.com/jp/business/lube/>
- Due to continual product research and development, the information contained herein is subject to change without notification.

Idemitsu Kosan Co., Ltd.
Lubricants Department II

2-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, 100-8321 Japan

Tel: +81-3-3213-3146, URL: <https://www.idemitsu.com/>