

Lubricant Product Information

IDEMITSU POLYLEX UMF

~ Grease for industrial machinery with excellent lubricity, anti-fretting ~

1. Applications

This grease uses refined mineral oil as a base oil and urea compounds as a thickener. Used for grease-lubricated parts such as machine tools, ball screws and liner guides of various industrial machines. In addition, because of its superior lubricity, anti-fretting characteristics, temperature suppression, and coolant resistance under the high load environment, it can be expected to contribute for the improvement of machining accuracy.

2. Features

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

The ball screw part is required to have extreme pressure and wear resistance because of high load.

(2) Excellent pumping property, enabling use in centralized greasing system. Since grease is supplied to each location through thin pipes and valves, high pumpability is required in all season.

(3) Excellent grease adherent, water resistance, and coolant resistance.

Water-soluble cutting oil is required to suppress the effect of dripping on the coolant.

3. Precautions for use

(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 grease feeding failure.

4. Typical Specifications

Analysis items (unit, measurement conditions)			Representative value	Test method
Thicker			Urea	-
Base oil type			Mineral oil	-
Color tone			Light yellow	-
Worked penetration	-	25°C,60W	466	JIS K2220 7.
Dropping point	°C	-	200	JIS K2220 8.
Copper plate corrosion	-	100°C,24hr	Pass	JIS K2220 9.
Apparent viscosity	Pa · s	0°C 10s ⁻¹	10	JIS K2220 19
		0°C 25s ⁻¹	8	
		0°C 100s ⁻¹	49	
High-speed four-ball wear resistance Performance test	Mm	75°C,392N, 1200rpm,60min	0.41	ASTM D 2266
High-speed four-ball Extreme pressure Performance test (WL)	N	1800rpm,10s	2452	ASTM D 2596
Fafner test (Fretting test)	Mg	Room temp. 22 hr	0.8	ASTM D 4170

5. Package

500g x 6pcs (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.

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