

TOUGHLIX GREASE MP2

Energy-Saving, Multipurpose Extreme Pressure Grease

TOUGHLIX GREASE MP2 is energy-saving multipurpose extreme pressure grease, which is useful for grease lubrication points of various machines. TOUGHLIX GREASE MP2 indicates excellent energy-saving property, and has superior thermal stability and water resistance due to our original base oil/additive technology and the application of lithium complex soap thickener. TOUGHLIX GREASE MP2 can extend the bearing life and the grease supply interval, and contributes to the reduction of maintenance works because of reducing the temperature rise of the bearing when it is used.

● SPECIAL FEATURES

1. Excellent Energy-Saving Property

TOUGHLIX GREASE MP2, which is energy-saving multipurpose extreme pressure grease, shows up to 11% of superior energy saving effects in comparison with the market available grease (Figure 1).

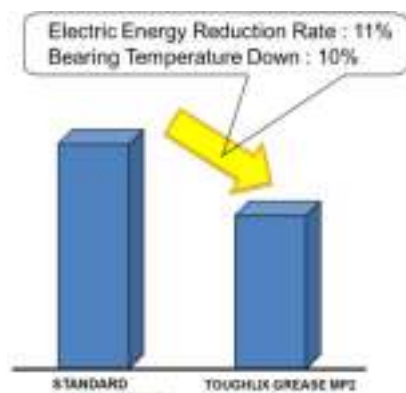


Figure 1. Energy Saving Property
(Double Row Ball Bearing Test)

2. Reduction of the Bearing Temperature Rise

TOUGHLIX GREASE MP2 reduces the bearing temperature rise of up to 10°C in comparison with the commercially available grease by the effect of reducing friction and stirring resistance (Figure1). Therefore, it extends the bearing life and the grease supply interval, and also contributes to the reduction of the maintenance work. It is expected to prolong the life of instruments.

3. Outstanding High Extreme Pressure Characteristics

Because TOUGHLIX GREASE MP2 is formulated with special agents having superior extreme pressure characteristics and high oxidation stability, it can be used in the grease lubrication point of various machines.

4. Superior Thermal Stability and Water Resistance

TOUGHLIX GREASE MP2 can be used in the high temperature lubrication point because of its high dropping point of over 250°C. In addition, it can be used in the lubrication point where water is easy mixed, because it is hard to be washed away by water and has the property of small penetration change even if water is contaminated.

● Application

Various industrial machines, various machine tools (main axis, ball screw of feeder, linear guide), construction machines, agricultural machines, various conveyance machines, motors (electric machinery), air blowers, ball bearing of pumps, rolling bearings, gears.

● CONTAINERS

180kg drums, 16kg cans, and 400g squeeze tubes.

● Typical Properties of TOUGHLIX GREASE MP2

Grade		2
Appearance		Light yellow butter
Penetration(25°C,60W)		250
Dropping point	°C	Over 250
Oil separation(100°C,24h)	mass%	0.7
High speed four - ball test(1800r/min) ,Weld load	N	3090
Water washing resistance (38°C,1h)	mass%	0



Handling Precautions

▼ Follow these precautions when handling this product.

! CAUTION Handling Precautions	<ul style="list-style-type: none"> ● <u>Inflammation can occur if grease enters the eyes.</u> When handling this grease, wear <u>protective goggles</u> or take other measures to <u>prevent eye contact</u>. ● <u>Inflammation can occur if grease comes into contact with skin.</u> When handling this grease, wear <u>protective gloves</u> or take other measures to <u>prevent skin contact</u>. ● Do not eat this grease. (Swallowing this grease can cause diarrhea and nausea.) ● <u>When opening the container, wear protective gloves</u> in order to avoid cutting your hands. ● <u>Keep out of reach of children.</u> ● Read the Safety Data Sheet (SDS) for this product before using the product. Obtain the SDS from where you purchased the product.
First Aid	<ul style="list-style-type: none"> ● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician. ● In case of skin contact, wash skin thoroughly with soap and water. ● If this grease is swallowed, do not induce vomiting. Consult with a physician immediately.
Disposal of Used Grease and Containers	<ul style="list-style-type: none"> ● Do not apply pressure to empty containers. The containers may burst if pressure is applied. ● Do not weld, heat, drill, or cut the containers. The remaining grease may ignite and the containers may explode. ● Follow all applicable laws and regulations when disposing of used grease or containers. If you are unsure of the proper disposal methods, consult first with the seller of the grease.
Storage Method	Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the grease. Store in a dark location. Avoid direct sunlight.