

# MULTINOC UREA

## A UREA GREASE FOR HIGH-SPEED ANTIFRICTION BEARINGS

MULTINOC UREA is a specially prepared grease for high-speed antifriction bearings used at high temperatures. It delivers long life at high temperatures with both large and small bearings. (Temperature range: -20°C to 175°C)

MULTINOC UREA has been newly developed using a highly refined mineral oil base with organic urea compounds used as thickeners.

### ● SPECIAL FEATURES

#### 1. Long Life at High Temperatures

MULTINOC UREA was carefully developed to ensure that every factor that can affect the life of a grease provides the best performance possible. It has a high dropping point; its base oil offers superior oxidation stability with little evaporation; its thickeners are ashless and will not cause oxidation degradation of the base oil; and its antioxidants are very effective even at high temperatures. MULTINOC UREA delivers bearing lubrication life five times longer than conventional lithium high-grade multipurpose grease, and it can be used at temperatures as high as 175°C.

#### 2. Usable with Wide Range of Bearings

The penetration and base oil viscosity of MULTINOC UREA have been chosen to allow the grease to be used with all types of bearings.

#### 3. Superior Rust Prevention

MULTINOC UREA provides excellent rust prevention even with bearings affected by sea water, such as those used in marine electric motors and on dredging barges.

#### 4. Excellent Water Resistance

MULTINOC UREA does not dissolve easily in water, and since it softens very little even when mixed with moisture, there is no danger of leaking.

### ● APPLICATIONS

MULTINOC UREA is ideal for the following demanding situations:

1. When exposed to temperatures up to 175°C.
2. When there is a danger of rust, such as in high humidity or in ocean air.
3. When exposure to moisture is unavoidable.

#### Examples:

Bearings with type F or H electric motors used in any kind of industrial machinery; bearings in electric components in automobiles; bearings in marine electric motors; pump bearings in dredging barges; and bearings in machine tools and textile mills.

### ● CONTAINERS

16-kg pail cans.

### TYPICAL TEST DATA FOR MULTINOC UREA

Thickeners		Organic urea compounds
Penetration (60 strokes)		290
	(100,000 strokes)	319
Dropping point	°C	over 250
Oxidation stability		
	(99°C,100h) MPa	0.0196
Oil separation		
	(100°C,24h) mass%	1.8
Evaporation		
	(99°C,22h) mass%	0.52
Rinsed water resistance		
	(38°C 1h) mass%	0.7



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>! CAUTION</b>  <b>Handling Precautions</b>	<ul style="list-style-type: none"><li>● <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>.</li><li>● <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>.</li><li>● Do not eat this grease. (Swallowing this grease can cause diarrhea and nausea.)</li><li>● <u>When opening the container, wear protective gloves</u> in order to avoid cutting your hands.</li><li>● <u>Keep out of reach of children.</u></li><li>● Read the Material Safety Data Sheet (MSDS) for this product before using the product. Obtain the Material Safety Data Sheet from where you purchased the product.</li></ul>
<b>First Aid</b>	<ul style="list-style-type: none"><li>● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician.</li><li>● In case of skin contact, wash skin thoroughly with soap and water.</li><li>● If this grease is swallowed, do not induce vomiting. Consult with a physician immediately.</li></ul>
<b>Disposal of Used Grease and Containers</b>	<ul style="list-style-type: none"><li>● Do not apply pressure to empty containers. The containers may burst if pressure is applied.</li><li>● Do not weld, heat, drill, or cut the containers. The remaining grease may ignite and the containers may explode.</li><li>● 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.</li></ul>
<b>Storage Method</b>	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.