

# 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. 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
Approx. operating temperature range	°C	-20 to 175



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil, Thickener, Additives
<b>Precautionary pictograms :</b>	
<b>Signal word:</b>	Warning
<b>Hazard Statement:</b>	May cause allergic skin reaction May cause damage to organs (or state all organs affected(blood systems))
<b>Precautionary Statements :</b>	
<b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Contaminated work clothing should not be allowed out of the workplace.</li><li>• Do not breathe dust/fume/gas/mist/vapours/spray.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li><li>• IF exposed or concerned : Call a POISON CENTER or doctor/physician.</li><li>• Take off contaminated clothing and wash before reuse.</li><li>• If skin irritation or a rash occurs: Get medical advice/attention.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li><li>• Store locked up.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>