

GRS-7053-2104E

# PYRONOC UNIVERSAL MT 00

## Urea grease for machine tools

**PYRONOC UNIVERSAL MT 00** is formulated with mineral base oil, organic urea compound thickener, extreme-pressure agent, anti-rust inhibitor and other carefully selected additives. **PYRONOC UNIVERSAL MT 00** is a grease suitable for use on sliding parts such as linear guides and ball screws equipped in machine tools.

### ● SPECIAL FEATURES

#### 1. Superior heat resistance

Due to the use of urea compound as the thickener, **PYRONOC UNIVERSAL MT 00** exerts little penetration change at the high temperature and keeps superior lubricity.

#### 2. Excellent anti-wear performance

**PYRONOC UNIVERSAL MT 00** has excellent anti-wear performance because it contains organic molybdenum compound and an excellent extreme pressure agent.

#### 3. High resistance to processing oil

**PYRONOC UNIVERSAL MT 00** is a grease that is less likely to be washed away from the processing oil used on machine tools, and is less likely to cause lubrication defects.

#### 4. Outstanding Oxidation Stability

Since **PYRONOC UNIVERSAL MT 00** uses urea-based organic compound that does not contain metals as a thickener, it does not receive the effect of promoting oxidation degradation by metals and has extremely excellent oxidation stability. In addition, **PYRONOC**

**UNIVERSAL MT 00** uses highly refined mineral oil as a base oil and is compounded with a high performance antioxidant, so it is resistant to oxidative degradation.

#### 5. Good resistance to plugging

**PYRONOC UNIVERSAL MT 00** is suitable for centralized lubricating system because it is unlikely to cause the plugging phenomenon.

#### 6. Excellent fretting resistance

**PYRONOC UNIVERSAL MT 00** has excellent fretting resistance because it is difficult to be removed from the sliding part by repetitive movement with minute strokes (oscillatory movement).

### ● APPLICATIONS

- Sliding part of linear guide
- Sliding part of ball screw

### ● CONTAINERS

630 g bellows-type tube (6 pcs.)

### ● TYPICAL TEST DATA FOR PYRONOC UNIVERSAL MT 00

Grade (NLGI No.)	00	
Soap type	Organic urea compound	
Appearance	Light yellow, Semi solid	
Penetration (25°C, 60 strokes)	423	
Dropping point	°C	Over 200
Oxidation stability (99°C,100h)	kPa	25
Evaporation loss (99°C, 22 h )	mass%	0.29
ASTM four-ball test(1800r/min), WL	N	1569
Four-ball wear test(1200r/min,392N,1h),	mm	0.37
Approx. operating temperature range	°C	-20 to 175

Note: The typical properties are subject to change without notice. (May 2019)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Thickener, Additives
<b>Precautionary pictograms:</b>	
<b>Signal word:</b>	Warning
<b>Hazard Statement:</b>	May cause an allergic skin reaction
<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>• Avoid breathing 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>• Take off contaminated clothing and wash before reuse.</li><li>• If skin irritation or 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></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>