

# PYRONOC UNIVERSAL

## A MULTIPURPOSE EXTREME-PRESSURE GREASE

PYRONOC UNIVERSAL grease is formulated with highly refined mineral base oil, organic urea compound thickener and carefully selected additives such as extreme-pressure agent and antirust agent, etc. PYRONOC UNIVERSAL can be applied to grease lubricating points of electric motors, steel-making machinery, machine tools, ships, automobiles, and many other machines.

### ● SPECIAL FEATURES

#### 1. Superior Heat Resistance

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

#### 2. Excellent Load-Carrying Performance

Since PYRONOC UNIVERSAL has outstanding load-carrying performance, it provides excellent performance even under lubrication point where severe high-load or the shock load is subjected.

#### 3. High Resistance to Water

At lubrication points that must be exposed to large amounts of cooling water, such as the bearings of continuous casting and hot-rolling machines, water resistance is a vital factor not only for lubrication but also for waste water treatment.

PYRONOC UNIVERSAL provides superb water resistance because it is not rinsed away easily even when it comes into contact with water, nor does it soften easily when mixed with water.

#### 4. Outstanding Oxidation Stability

PYRONOC UNIVERSAL has outstanding oxidation stability due to the combination of organic urea compound thickener without metallic or ash content, highly refined mineral base oil and high-performance antioxidants.

#### 5. High Shear Stability

PYRONOC UNIVERSAL is very resistant to softening and oil separation caused by mechanical shear, so it will not leak or lose lubrication performance easily even in gears and high-speed rotating components.

### ● APPLICATIONS

- Bearings of steel-making machinery, continuous casting machines, rolling mills, heating furnace and heat-treating furnace
- Bearings and gears of various industrial equipment and machine tool
- Bearings of electric motor and blower
- Bearing of various machines related to fishing boat
- Joint, pin, bearing and other grease point of construction machine and heavy industrial machine

### ● CONTAINERS

- 180kg-drum
- 16-kg pail can
- 2.5-kg can (6 pcs.)
- 400 g bellows-type tube (20 pcs.)

## ● TYPICAL TEST DATA FOR PYRONOC UNIVERSAL

Grade (NLGI No.)		0	1	2
Thickener type		Organic urea compounds		
Appearance		Light yellow, Semi solid		
Base oil viscosity (100°C)	mm <sup>2</sup> /s	31.5	15.8	15.8
Penetration (25°C, 60 strokes)		360	322	276
Worked stability (25°C, 100,000 strokes)		419	329	283
Dropping point	°C	Over 250	Over 300	Over 300
Oil separation (100 °C, 24h)	mass%	1.1	0.6	0.3
Oxidation stability (99°C, 100h)	kPa	25	25	25
Copper strip corrosion (100°C, 24h)		Passed	Passed	Passed
Water washout resistance (79°C, 1h)	mass%	7	2	1
ASTM four-ball test (1800r/min), WL	N	2450	2450	2450
Operating temperature range (approx.)	°C	-20 to 175		

Note: The typical properties may be changed without notice. (February 2023).



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Thickener, Additives
<b>Hazard pictograms:</b>	
<b>Signal word:</b>	Warning
<b>Hazard Statement:</b>	<ul style="list-style-type: none"> <li>• May cause an allergic skin reaction</li> <li>• Harmful to aquatic life</li> <li>• Harmful to aquatic life with long lasting effects.</li> </ul>
<b>Precautionary Statements:</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>• Avoid release to the environment.</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 /doctor</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 skin irritation or rash occurs: Get medical advice/attention.</li> <li>• Take off contaminated clothing and wash before reuse.</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>