



PYRONOC UNIVERSAL 00 AND 000

GREASE FOR GEARED MOTORS

While the speed reduction mechanisms in geared motors can be lubricated with either oil or grease, in recent years the use of grease lubrication has become more common even in high-output geared motors so that the motors can be installed in a greater variety of orientations. As a result, greases with better lubrication performance and durability have become essential. **Pyronoc Universal 00** and **000** were developed specifically to meet these grease requirements of geared motors.

● **Special Features**

1. Outstanding Heat Resistance

Pyronoc Universal 00 and **000** have a dropping point of over 250°C, so they resist softening at high temperatures and continue to provide very good lubrication even in hot environments.

2. Excellent Load-Bearing Performance

Pyronoc Universal 00 and **000** have excellent load-bearing performance, so they provide superb lubrication even at points that are exposed to high loads, such as in geared motors.

3. Superb Oxidation Stability

The thickeners in **Pyronoc Universal 00** and **000** are urea-type organic compounds that contain no metal, so they have extremely good oxidation stability without the oxidative degradation that can be caused by metallic ingredients. Their base oils are highly refined mineral oils and they also contain high-performance oxidation inhibitors, so these greases are very resistant to oxidation.

4. Excellent Shear Stability

Thanks to their outstanding shear stability, **Pyronoc Universal 00** and **000** resist softening and can be used continuously for long periods when exposed to the strong shear forces in geared motors.

5. Very Little Leaking of Grease

The grease used in geared motors must provide lubrication while sealed inside the motor case for long periods of time. **Pyronoc Universal 00** and **000** resist oil separation, so they provide long-term stable operation with little leakage through seals.

● **Applications**

Use **Pyronoc Universal 000** for normal applications in geared motors and machine gears. Use **Pyronoc Universal 00** when the prevention of seal leakage is especially important.

● **Containers**

180-kg drums and 16-kg pail cans.

● **Typical Properties of Pyronoc Universal**

Grades			000	00
Thickener			Urea-type organic compounds	Urea-type organic compounds
Kinematic viscosity	(40°C)	mm ² /s	178	178
	(100°C)	mm ² /s	16.3	16.3
Penetration	(25°C, 60 strokes)		466	420
Dropping point		°C	245	Over 250
Oil separation	(100°C, 24 h)	mass%	9.2	4.9
Evaporation	(99°C, 22 h)	mass%	0.53	0.53
Oxidative stability	(99°C, 100 h)	kPa	20	20
Timken number		kg	20	20

Note: The typical properties may be changed without notice. (November 2003)



**Handling
Precautions**

▼ Follow these precautions when handling this product.

<p>! CAUTION</p> <p>Handling Precautions</p>	<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 Material Safety Data Sheet (MSDS) for this product before using the product. Obtain the Material Safety Data Sheet from where you purchased the product.
<p>First Aid</p>	<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.
<p>Disposal of Used Grease and Containers</p>	<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.
<p>Storage Method</p>	<p>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.</p>