

# WORM GEAR LUBE

## Specialized Gear Oil for Worm Gears

The lubrication conditions of worm gears are severe, as the sliding velocity is particularly high and the contact pressure is quite significant. **WORM GEAR LUBE**, formulated with special extreme pressure and oiliness agents, is specifically designed for worm gears and demonstrates superior performance in preventing wear on the worm wheel.

### ● FEATURES

1. High oil film retention, preventing wear and seizure
2. Excellent oxidation stability, allowing for long-term use
3. Superior corrosion resistance for copper alloys
4. Outstanding anti-foaming properties

### ● APPLICATIONS

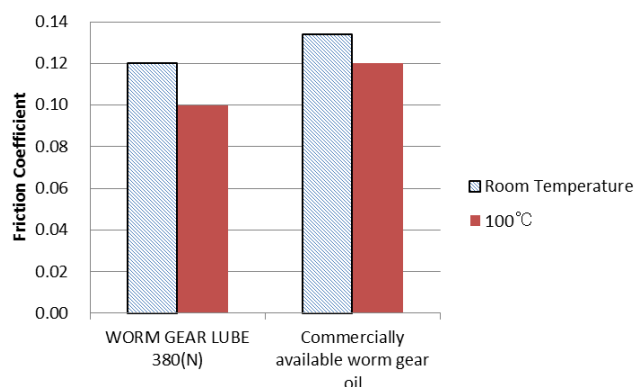
- (1) Worm gears in various rolling mills
- (2) Worm gears in various industrial machines
- (3) Screws in various industrial machines

### ● LUBRICANT LIST FOR WORM GEAR

Applied temperature	Oil supply method	Suitable lubricants
Less than 30 °C	Oil bath	WORM GEAR LUBE 220(N)
	Brushing	CRANOC COMPOUND 2
	Filling	EPNOC GREASE AP (N) 0
Over 30 °C	Oil bath, Dipping	(General) WORM GEAR LUBE 220(N)
		(High-load) WORM GEAR LUBE 380(N)
	Brushing	CRANOC COMPOUND 2
	Filling	EPNOC GREASE AP (N) 0

### ● EVALUATION TESTS OF FRICTION

The pendulum-type friction tester is a laboratory evaluation device used to examine the oiliness effect of additives under boundary lubrication conditions. Since worm gears commonly use a steel-copper alloy combination, the test was conducted using a phosphor-bronze pin and a steel ball. The results showed that **WORM GEAR LUBE** exhibited a lower friction coefficient compared to commercially available worm gear oils, demonstrating superior oiliness.



### ● CONTAINERS

200-liter drum, 20-liter pail

## ● TYPICAL PROPERTIES OF WORM GEAR LUBE

Grade		220(N)	380(N)
Appearance		liquid	liquid
Color (ASTM)		L2.5	L2.0
Density	g/cm <sup>3</sup>	0.896	0.900
Kinematic viscosity	(40°C) mm <sup>2</sup> /s	221	380
Kinematic viscosity	(100°C) mm <sup>2</sup> /s	20.4	30.2
Viscosity index		107	111
Flash point	°C	260	262
Pour point	°C	-17.5	-12.5
Copper strip corrosion	(100°C, 3h)	1	1
AGMA No.		5EP	6EP-7EP

AGMA: American Gear Manufacturers Association

Note: The typical properties may be changed without notice. (May 2024)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Hazard pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Harmful to aquatic life Harmful to aquatic life with long lasting effects
<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>• Avoid release to the environment.</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> </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>