

# WORM GEAR LUBE

## High-quality gear oils for worm gears

Lubrication conditions of a worm gear are severe, since especially sliding velocity is high and contact pressure is quite high. **WORM GEAR LUBE**, which is formulated with a special extreme pressure agent and oiliness agent, is oil for exclusive use of the worm gear and shows a superior performance in wear prevention of the worm wheel.

### ● ADVANTAGES

1. Strong oil film retention and excellent wear protection
2. Outstanding oxidative stability and longer oil life
3. Excellent rust prevention for copper alloys
4. Excellent anti-foaming property

### ● APPLICATIONS

- (1) Worm gear of various rolling mills
- (2) Worm gear of various industrial equipment
- (3) Screw of various industrial equipment

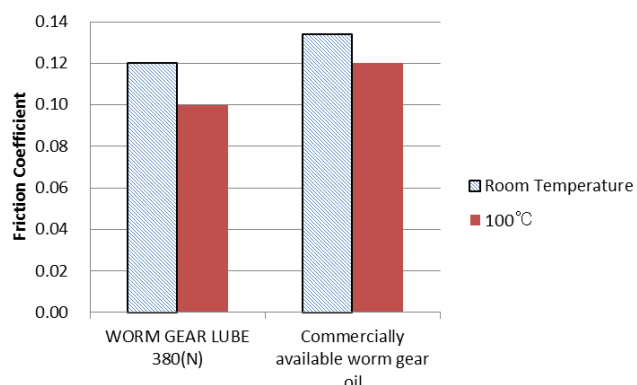
### ● LUBRICANT LIST FOR WORM GEAR

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

### ● FRICTION PROPERTIES

The pendulum type friction tester is one of laboratory evaluation tests to examine oiliness of additives under boundary lubrication. Since worm gear is commonly steel-copper alloy combination, the pendulum type friction test was conducted using phosphor-bronze pin and steel ball.

**WORM GEAR LUBE** showed low friction coefficient lubrication in comparison with a commercially available worm gear oil.



### ● CONTAINERS

200-liter drums, 20-liter cans

### ● TYPICAL PROPERTIES OF WORM GEAR LUBE

Type of WORM GEAR LUBE	220N	380N
Appearance	liquid	liquid
Color (ASTM)	L2.5	L4.5
Density	g/cm <sup>3</sup> 0.898	0.904
Kinematic (40°C) viscosity	mm <sup>2</sup> /s 219	386
(100°C) viscosity	mm <sup>2</sup> /s 20.0	29.6
Viscosity index	106	107
Flush point	°C 250	260
Pour point	°C -15	-12.5
Copper strip corrosion (100°C, 3h)	1	1
AGMA No.	5EP	6EP-7EP

AGMA: American Manufacturers Association

Note: The typical properties may be changed without notice. (Dec.2008)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Precautionary pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Not applicable
<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>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Prevention</b>	
<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></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>