

IND-1503-2405E

# SEWINGLUBE N

## High Performance Industrial Sewing Machine Oil

SEWINGLUBE N is a high-grade lubricant blended with colorless and transparent mineral oil by advanced hydro-refining process, and various additives including antioxidants and ultraviolet absorbers. It is a special oil developed for the lubrication of bearings and gears in industrial sewing machines and textile machinery. SEWINGLUBE N is available in two types: ISO VG 10 for general-purpose sewing machine use, and ISO VG 15 for high-speed sewing machine use.

### ● SPECIAL FEATURES

#### 1. Light Color and Low Odor

SEWINGLUBE N is blended with colorless transparent mineral oil by advanced hydro-refining process and carefully selected additives. This results in a comfortable working environment without unpleasant odors.

#### 2. Excellent Weather Resistance and Low Discoloration

In sewing machines, there is a concern about contamination of surrounding fabrics or materials to maintain the quality of the product.

SEWINGLUBE N is a sewing machine oil that uses a special UV (ultraviolet) absorber and is extremely resistant to discoloration.

#### 3. Good Lubrication Performance

There are many parts that require lubrication in industrial sewing machines, such as high-speed rotating bearings, cam mechanisms, and sliding parts. Recently, high-speed machines with speeds close to 10,000 rpm have been introduced to the market, and excellent lubricating oil is required to maintain the performance of these high-speed machines.

SEWINGLUBE N 10 is designed for general-purpose machines, and SEWINGLUBE N 15 is designed for high-speed machines.

#### 4. Good Oxidation Stability

SEWINGLUBE N can be used for a long time owing to superior base oil and additives that suppress oxidation and alteration by heat and air.

#### 5. Excellent Rust Prevention and Corrosion Prevention

SEWINGLUBE N protects iron-based materials and copper-based bearing materials used in industrial sewing machines from rust and corrosion.

### ● APPLICATIONS

1. Lubrication of industrial sewing machines (general-purpose models, high-speed models)
2. Lubrication of high-speed rotating bearings such as in sewing and textile machinery
3. Lubrication of precision machinery
4. Other machines requiring a high-performance, low-viscosity lubricating oil

### ● CONTAINERS

200-liter drum and 20-liter can

### ● TYPICAL PROPERTIES OF SEWINGLUBE N

ISO VG		10	15
Color (Saybolt)		30	+ 30
Density (15°C)	g/cm <sup>3</sup>	0.834	0.834
Kinematic viscosity (40°C)	mm <sup>2</sup> /s	10.1	14.9
Kinematic viscosity (100°C)	mm <sup>2</sup> /s	2.68	3.51
Viscosity index		101	115
Flash point (COC)	°C	174	202
Pour point	°C	-27.5	-25.0
Acid number	mgKOH/g	0.12	0.11
Copper strip corrosion (100°C, 3 h)		1	1
Rust prevention (distilled water, 60°C, 24 h)		No rust	No rust
Thermal stability (170°C, 16h)		No deposit	No deposit

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

## ● Evaluation results

### 1. Weather Resistance (UV Irradiation Test)

#### (1) Test Method

It is important for lubricating oils used in industrial sewing machines that handle fibers to not easily discolor even with long-term use (storage). In this test, the sample oil is irradiated with ultraviolet rays for a certain period to observe the change in Saybolt color before and after irradiation.

#### [Test Conditions]

Light source: Sunshine carbon arc and UV carbon arc

Temperature:  $63\pm 3^{\circ}\text{C}$

Rainfall: None

#### (2) Results

ISO VG	10	15
Color, Saybolt (ASTM)		
Before irradiation	+ 29 (L0.5)	+ 30 (L0.5)
After 140 h irradiation	+ 17 (L0.5)	+ 17 (L0.5)
Acid number, mgKOH/g		
Before irradiation	0.11	0.11
After 140 h irradiation	0.13	0.13


### 2. Lubricity

ISO VG	10	15
Friction coefficient (Bowden, steel)	0.107	0.105
Falex wear, mg (steel, 250rpm, 80lbs, 20h)	1.3	2.1
Falex seizure load, lbs (steel, 290rpm)	750	750



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Hazard pictograms:</b>	
<b>Signal word:</b>	Danger
<b>Hazard Statement:</b>	May be fatal if swallowed and enters airways
<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>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>• Do NOT induce vomiting.</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><li>• Store locked up.</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>