



# Epnoc Grease AP (N)

Environmentally Friendly Low-Odor General-Purpose Extreme-Pressure Grease

**Epnoc Grease AP (N)** is a light-brown general-purpose extreme-pressure grease for industrial applications. It is made with lithium soap, which provides improved water and heat resistance, as well as highly refined mineral base oils and carefully selected oxidation inhibitors, corrosion inhibitors, and other additives. It can be used at almost all machine grease lubrication points, and it is especially suitable centralized lubrication systems. **Epnoc Grease AP (N)** is an improved, low-odor reformulation of Nippon Oil's widely used Epnoc Grease AP.

## ● SPECIAL FEATURES

### 1. Excellent Load-Bearing (Extreme-Pressure) Performance

As shown by the "EP" in their names, all of Nippon Oil's Epnoc greases have outstanding extreme-pressure performance. **Epnoc Grease AP (N)** therefore provides excellent load-bearing performance even under severe high-load, low-speed conditions.

### 2. Superb Grease Feeding

**Epnoc Grease AP (N)** has a low apparent viscosity even at low temperatures, so it is easy to feed and is ideal for centralized lubrication systems.

### 3. Outstanding Heat Resistance

**Epnoc Grease AP (N)** is made with lithium soap grease that provides outstanding heat resistance, so it can be used even at high-temperature lubrication points.

### 4. Excellent Mechanical Stability

When grease is fed through narrow tubes or used in bearings, it is exposed to mechanical shear. If the grease has poor mechanical stability, then the grease structure will be destroyed, resulting in softening, oil separation, and tube clogging. **Epnoc Grease AP (N)** has excellent mechanical stability, so there is no need to worry about such problems.

### 5. Superb Oxidative Stability

**Epnoc Grease AP (N)** has superb oxidative stability, so it resists degradation and oil separation during storage and use. As a result, the grease can be used for long periods of time.

### 6. Outstanding Water Resistance

**Epnoc Grease AP (N)** resists washout when it comes into contact with water, so it resists softening even when mixed with water.

### 7. No Metal Corrosion

**Epnoc Grease AP (N)** will not corrode copper, steel, zinc, or other metals.

### 8. Environmentally Friendly

**Epnoc Grease AP (N)** contains no lead or zinc, so it helps to protect the environment during waste water treatment and the disposal of used grease.

## ● APPLICATIONS

**Epnoc Grease AP (N)** can be used in centralized lubrication systems in the most demanding applications that require excellent extreme-pressure, heat-resistance, and water-resistance performance, including rolling machinery for steel, nonferrous metals, and rubber; hydroturbine generators; cranes; industrial machinery; automobiles; ships; etc. **Epnoc Grease AP (N)** is also an excellent general-purpose grease.

## ● GRADES

**Epnoc Grease AP (N)** is available in three penetration grades (0, 1, and 2) for almost any application. These numbers correspond to the NLGI numbers.

## ● CONTAINERS

180-kg drums, 16-kg pail cans, 2.5-kg cans, and 400-g flexible containers.

● **TYPICAL PROPERTIES**

Grade	0	1	2
Penetration (25°C, 60 strokes)	362	325	279
Dropping point, °C	193	196	200
Copper strip corrosion (100°C, 24 h)	Passed	Passed	Passed
Oxidative stability (99°C, 100 h), kPa	24	24	24
Soap type	Lithium soap		
Base oil viscosity (100°C), mm <sup>2</sup> /s	13.9	13.9	13.9
ASTM four-ball test, WL, N	3090	3090	3090
Apparent viscosity (-10°C, 10 s <sup>-1</sup> ), Pa-s	57	151	271

Note: The typical properties may be changed without notice. (November 2002).



**Handling  
Precautions**

▼ Follow these precautions when handling this product.

<p><b>! CAUTION</b></p> <p><b>Handling Precautions</b></p>	<ul style="list-style-type: none"> <li>● <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>.</li> <li>● <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>.</li> <li>● Do not eat this grease. (Swallowing this grease can cause diarrhea and nausea.)</li> <li>● <u>When opening the container, wear protective gloves</u> in order to avoid cutting your hands.</li> <li>● <u>Keep out of reach of children.</u></li> <li>● 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.</li> </ul>
<p><b>First Aid</b></p>	<ul style="list-style-type: none"> <li>● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician.</li> <li>● In case of skin contact, wash skin thoroughly with soap and water.</li> <li>● If this grease is swallowed, do not induce vomiting. Consult with a physician immediately.</li> </ul>
<p><b>Disposal of Used Grease and Containers</b></p>	<ul style="list-style-type: none"> <li>● Do not apply pressure to empty containers. The containers may burst if pressure is applied.</li> <li>● Do not weld, heat, drill, or cut the containers. The remaining grease may ignite and the containers may explode.</li> <li>● 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.</li> </ul>
<p><b>Storage Method</b></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>