

# VP SUPER

## For oil-sealed rotary high vacuum pump

**VP SUPER** is a vacuum pump oil which is formulated with highly refined base oil to get high degree of vacuum. Its low vapor pressure and excellent water separability maximizes pump's performance.

### ● SPECIAL FEATURES

#### 1. Maximize pump's performance

When the vapor pressure of the vacuum pump oil comes to high, it becomes gas under vacuum, hindering the vacuum or causing contamination of the vacuum container. Conventional general-purpose oil may contain light fractions, which raises the vapor pressure and causes a problem.

**VP SUPER** is based on highly refined base oil, it does not contain light fractions and its vapor pressure is low, so it is possible to obtain a high vacuum ultimate pressure up to the pump capability limit.

#### 2. Excellent water separability

In the case of air exhaust, the water vapor contained may condense in the rotary pump. Because **VP SUPER** is excellent in water separability, water mixed in the equipment can be easily drained.

#### 3. Excellent oxidation stability

Since **VP SUPER** has excellent oxidation stability, it can be used for a long time.

#### 4. Excellent lubricity

**VP SUPER** has good lubricity and prevents wear of the rotary pump.

### ● APPLICATIONS

Oil-sealed rotary pump with high vacuum degree

### ● CONTAINERS

200-liter drums, 20-liter cans

### ● TYPICAL PROPERTIES OF

#### VP SUPER

ISO VG		46	68
Color(ASTM)		L0.5	L0.5
Density(15 °C)	g/cm <sup>3</sup>	0.846	0.859
Viscosity(40°C)	mm <sup>2</sup> /s	46.9	69.6
Viscosity index		126	110
Flash point (COC)	°C	252	262
Pour point	°C	-15	-12.5
Acid number	mgKOH/g	≤0.01	≤0.01
Copper strip corrosion(100°C, 3h)		1	1
Evaporation amount(98 °C, 5h)	%	≤0.1	0.0
Thermal stability(170 °C, 24h)		Pass	Pass
Ultimate vacuum	Pa	0.16	0.16

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



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Highly refined mineral oil
<b>Precautionary pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Not applicable
<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>• 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 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>