PRODUCT BULLETIN

The Future of Energy, Resources and Materials
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Fairvac White

General-Purpose Rotary Pump Oil

FAIRVAC WHITE is a vacuum pump oil specially designed for rotary vacuum pumps. It has a very low vapor pressure and excellent moisture separation, so it enables outstanding pump performance.

● Special Features

1. Maximum Pump Performance

If a rotary pump oil has a high vapor pressure, the oil will vaporize, break the vacuum, and contaminate the vacuum chamber. Since conventional general-purpose oils contain light components, they have high vapor pressures that are likely to cause problems.

Unlike other oils of equivalent viscosities, **FAIRVAC WHITE** contains no light components, so it has a very low vapor pressure. As a result, it makes possible vacuums up to 10^{-2} Torr (1.3 Pa).

FAIRVAC WHITE brings out the maximum performance from high-precision vacuum rotary pumps.

2. Stable Vacuum for Long Periods

Exhaust air can contain water vapor, resulting in condensation inside the pump.

FAIRVAC WHITE has excellent moisture separation, so any water that collects inside the pump can be drained out easily. As a result, **FAIRVAC WHITE** provides reliable use for long periods.

3. Excellent Lubrication

FAIRVAC WHITE provides excellent lubrication, so it protects rotary pumps from wear.

● Applications

Low- to medium-vacuum rotary pumps and mechanical booster pumps (atmospheric pressure to 10^{-2} Torr (1.3 Pa)).

● Containers

200-liter drums and 20-liter cans.

● Typical Properties of FAIRVAC WHITE

Grade		46	68	100
ISO viscosity grade		46	68	100
Density (15°C)	g/cm^3	0.868	0.874	0.880
Flash point (COC)	°C	240	250	260
Kinematic viscosity (40°C)	mm^2/s	46.6	68.7	108.1
Color (ASTM)		L0.5	L1.0	L1.5
Pour point	°C	-10	-10	-10
Copper strip corrosion (100°C, 3 h)		1 max.	1 max.	1 max.
Moisture separation (54°C)	min.	40-40-0 (5 max.)	40-40-0 (5 max.)	40-40-0 (5 max.)
Thermal stability (170°C, 24 h)		Passed	Passed	Passed
Vapor pressure (50°C)	Torr	1×10^{-4} max.	1×10^{-4} max.	1×10^{-4} max.
	Pa	1.3×10^{-2} max.	1.3×10^{-2} max.	1.3×10^{-2} max.

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

Handling Precautions

▼ **Follow these precautions when handling this product.**

! CAUTION **Handling Precautions**	● Inflammation can occur if oil enters the eyes. When handling this oil, wear protective goggles or take other measures to prevent eye contact. ● Inflammation can occur if oil comes into contact with skin. When handling this oil, wear protective gloves or take other measures to prevent skin contact. ● Do not drink this oil. (Swallowing this oil can cause diarrhea and nausea.) ● Keep out of reach of children. ● 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.
First Aid	● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician. ● In case of skin contact, wash skin thoroughly with soap and water. ● If this oil is swallowed, do not induce vomiting. Consult with a physician immediately.
Disposal of Used Oil and Containers	● Do not apply pressure to empty containers. The containers may burst if pressure is applied. ● Do not weld, heat, drill, or cut the containers. The remaining oil may ignite and the containers may explode. ● Follow all applicable laws and regulations when disposing of used oil or containers. If you are unsure of the proper disposal methods, consult first with the seller of the oil.
Storage Method	Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the oil. Store in a dark location. Avoid direct sunlight.