

Grease Specifically Made for Vacuum Equipment

# ULVOIL® Z-300/Super Z-300

**Z-300** fluoride oil based grease

**Super Z-300** fluoride oil based grease

Our genuine grease, ULVOIL Z series has excellent lubricating properties and—chemicals and foods. ULVOIL Z series is produced with extreme care—vacuum environment. These grease products allow vacuum processes to be used—introduction of contaminants.



Grease specifically made for vacuum equipment with excellent lubricating properties

**• Cautions for use**

To bring out ULVOIL Z series' lubricating characteristics to the max please make sure the grease doesn't get mixed with contaminants. The followings are things to keep in mind;

- Keep the grease clean.
- Keep tools used for application clean.
- Avoid the grease from contact with dust or any other contaminants. Store it in a clean place.
- Make sure the temperature of the part where the grease is applied on is between -60-260°C.

**• Safety**

Z300 is stable relative to nearly all chemicals and also has excellent incombustibility. It is insolvent in water and oil, and therefore nontoxic.

**Properties**

Test item	Test method	Z-300	Super Z-300
Appearance	visibility	White, viscus	White, viscus
viscosity 60W	JIS K 2220.7	299	300
Oil separatory (200°C x 24h) (%)	JIS K 2220.11	8.6	10.6
Density (g/cm³)		1.97	1.97
Kinematic viscosity of base oil	JIS K 2220.23	40°C (mm²/s)	68.8
		100°C (mm²/s)	33
Viscosity index		355	209
Pour point ( )	JIS K 2269	-66	-65
Vapor pressure (base oil)	VAP-9000 evaluation*	20°C (Pa)	$2.8 \times 10^{-7}$
		Knudsen-Effusion method	$3.9 \times 10^{-10}$
	Knudsen-Effusion method	100°C (Pa)	$4.3 \times 10^{-5}$
			$1.3 \times 10^{-6}$
			$6.4 \times 10^{-10}$
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			$1.8 \times 10^{-6}$
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The numbers are an example. They are not standards.

**VAP-9000 Evaluation method**

- 1 Test item is put into the sample container (weight is measured).
- 2 Form a vacuum.
- 3 Start heating and measuring.
- 4 Measure till it reaches the set up temperature or time.
- 5 data (change of temperature and weight)
- 6 vapor pressure analysis

VAP-9000 is a product of ULVAC RIKO, INC. We provide both sales and request examinations.

