

OILS FOR ROTARY VANE PUMPS



■ Oils for rotary vane pumps have to meet high requirements, especially in circumstances of continuous operation:

- low vapor pressure even at high temperatures
- excellent lubricating properties
- low oil back streaming
- excellent resistance to aging
- resistant to break-down
- minimum oxidation



■ Rotary-vane Pump Oil B

This vacuum pump oil has excellent viscosity characteristics. Its good chemical resistance, low vapor pressure as well as its better stability when pumping oxidants such as acid and alkaline vapors, makes it superior compared to standard mineral oils. This oil is used for the first filling of RE / RZ / RC series pumps.

Many pumped substances can cause deterioration of common pump oil, leading to mechanical problems. **Special oils** should be used as a prevention. **Special oils may maintain lubricating properties but provide only limited protection against corrosion. The start of the pumps at low temperatures can be impeded.**

■ Rotary-vane Pump Oil K 8

This oil is especially designed for pumping acid vapors but is very hygroscopic and has limited capacity for water vapor. The alkaline additive is consumed during operation making it necessary to change the fluid regularly - even if the pump is not used for several days. Pump oil K 8 does not have the low vapor pressure and the viscosity characteristics of pump oil type B. Pumps will therefore not reach the specified ultimate vacuum and may not start up well at temperatures < 18°C.

■ Perfluoropolyether Oil

This synthetic oil has excellent chemical resistance. Therefore it is often used for pumping strong oxidants (halogenides, nitrogen oxides, etc.). As this oil type must not be mixed with mineral oils, a pump intended for this oil should be built with it from the outset. All VACUUBRAND rotary vane pumps are available with this oil on request. For changeover of an existing pump to this oil the pump has to be completely disassembled, cleaned and refilled with perfluoropolyether oil at VACUUBRAND (on request).

- PFPE oil type I for VACUUBRAND rotary vane pumps RE 2.5, RZ 2.5, RE 6, RZ 6.
- PFPE oil type II for all VACUUBRAND rotary vane pumps.

TECHNICAL DATA	Vapor pressure (mbar) at operating temperature of pump		Flashpoint °C	Viscosity at 40°C mm ² /sec	Density at 20°C g/cm ³
Rotary-vane Pump Oil B	< 1 × 10 ⁻³		264	94	0.87
Rotary-vane Pump Oil K 8	< 5 × 10 ⁻³		249	128	0.89
Perfluoropolyether Oil TYP I	< 3 × 10 ⁻⁵		-	60	1.90
Perfluoropolyether Oil TYP II	< 3 × 10 ⁻⁵		-	60	1.89
ORDERING INFORMATION	0.5l bottle	1l bottle	5l canister	20l canister	200l barrel
Rotary-vane Pump Oil B	-	687010	687011	687012	687013
Rotary-vane Pump Oil K 8	-	687100	687101	687102	-
Perfluoropolyether Oil TYP I	687610 (0.3 l)	-	-	-	-
Perfluoropolyether Oil TYP II	687600	-	-	-	-

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