

# porite the list of the recommended lubricating oil

type : synthetic oil

Porite No	compatibility with resin/rubber	viscosity (mm <sup>2</sup> /s at40°C)	flash point (°C)	specific gravity	examples of usage
PSL-0	○	17.8	242	0.89	Fan motor
PSL-1	○	29.3	270	0.89	Fan motor
PSL-2	○	42.9	280	0.91	Fan motor
PSL-3	○	56.4	274	0.91	Fan motor
PSL-4	◎	60.5	232	0.86	automotive actuator, stepping motor , geared motor
PSL-6	○	95.3	270	0.9	capstan bearing for tape deck, HB stepping motor
PSL-7	△	60	250	0.9	automotive actuator (cooling fan, blower etc) microwave oven
PSL-10	△	39.6	250	0.92	automotive actuator (cooling fan, blower etc)
PSL-11	△	33	236	0.92	automotive actuator (cooling fan, blower, sheet fan etc)
PSL-16	△	11.9	236	0.92	LBP polygon mirror scanner motor ,DLP color wheel motor
PSL-18	△	10.6	226	0.91	LBP polygon mirror scanner motor ,DLP color wheel motor
PSL-19	◎	10.3	188	0.81	Spindle motor for optical disk drive(CD,DVD etc)
PSL-20	◎	17.8	222	0.82	Spindle motor for optical disk drive(CD,DVD etc)
PSL-23	◎	99.3	252	0.86	HB stepping motor
PSL-25	◎	9.9*	163*	0.81*	small spindle motor, low torque fan motor( impregnation grease : the data are of the base oil)
PSL-26	◎	18.5	228	0.82	Vibration motor, thread motor, small stepping motor, spindle motor for CD/MD
PSL-27	◎	30.4	241	0.83	Vibration motor, thread motor, small stepping motor, spindle motor for CD/MD
PSL-28	◎	60.9	264	0.84	Vibration motor, thread motor, small stepping motor, spindle motor for CD/MD
PSL-29	◎	96.3	282	0.84	LBP main motor, PM stepping motor
PSL-32	◎	48	250	0.83	Vibration motor, thread motor, small stepping motor, spindle motor for CD/MD
PSL-33	△	60.0*	250*	0.90*	Automotive actuator(impregnation grease : the data are of the base oil)
PSL-34	◎	26.1	235	0.83	Vibration motor, thread motor, small stepping motor, spindle motor for CD/MD
PSL-35	◎	103.1	272	0.85	automotive actuator, stepping motor , geared motor
PSL-36	◎	68	280	0.84	automotive actuator, stepping motor , geared motor
PSL-37	○	69	286	0.93	Fan motor
PSL-38	○	97.9	292	0.93	Fan motor
PSL-43	◎	10.3	160	0.81	ultra low temperature fan in the refrigerator
PSL-19A	◎	14.5	194	0.82	Spindle motor for optical disk drive(CD,DVD etc)
PSL-20A	◎	19	226	0.82	Spindle motor for optical disk drive(CD,DVD etc)
PSL-100	◎※	114	330min	0.99	silicone oil: suits for the fan motor used under high temperature such as oven range
PSL-101	◎※	28.0*	170*	0.93*	Silicone-based fan for a wide temperature range from extremely low temperature to high temperature
PFL-200	◎	65	-	1.87	Fluorine oil: high temperature motor for automobiles(ETC EGR)

\*PSL-100 and PSL-101 have no problem with compatibility with most resins, but caution is required when using them with silicone resins.

\*Representative values are shown for the characteristics.

type : semi-synthetic oil

Porite No	viscosity (mm <sup>2</sup> /s at40°C)	compatibility with resin/rubber	flash point (°C)	specific gravity
PVL-1	20.6	◎	232	0.84
PVL-2	31.3	◎	244	0.85
PVL-3	47.4	◎	262	0.86
PVL-4	69.8	◎	270	0.87

type : mineral oil

Porite No	viscosity (mm <sup>2</sup> /s at40°C)	compatibility with resin/rubber	flash point (°C)	specific gravity
PML-A	22.3	◎	188	0.86
PML-B	31.8	◎	222	0.87
PML-C	45.4	◎	238	0.87
PML-D	66.8	◎	248	0.87
PML-K	69.9	◎	256	0.87
PML-L	100.3	◎	272	0.87
PML-M	152	◎	276	0.88

type : anti-rust oil

Porite No	viscosity (mm <sup>2</sup> /s at40°C)	flash point (°C)	specific gravity
PSR-01	3	79	0.82
PSR-04	4.9	98	0.83
PSR-05	4.6	96	0.84
PSR-06	3	80min	0.84

type : oil repellent

Porite No	water-soluble	specific gravity	flash point
POR-6	non-water-soluble	-	1.4
POR-7	non-water-soluble	-	1.4

\*POR-7 is a grade with fluorescent paint added to POR-6.

## introduction of each oil

### ●synthetic oil

Lubricants designed to excel in specific performance and can be selected according to the bearing application.

### ●semi-synthetic oil

A sophisticated general-purpose lubricating oil with excellent heat resistance and evaporation characteristics, and less sludge generation. It can be used in a wide range.

### ●mineral oil

It is a general-purpose lubricating oil. Generally, general-purpose oil has a short life cycle as a product, and it is necessary to change the design every time it is discontinued, but there is no risk of discontinuing the PML series.

PML-A~D :General grade

PML-K~M:Excellent wear resistance, especially suitable for high load applications

### ●Anti-corrosion oil

A rust preventive oil developed to be most effective for sintered machine parts.

### ●Oil repellent

It is effective in preventing oil leakage from sintered oil-impregnated bearings.

## \*Detailed explanation of characteristic items

### ●Compatibility with resin/rubber

Depending on the type of lubricating oil, certain resins and rubber may deteriorate.

It is recommended to use the oil evaluated as ○・△ after confirming the compatibility. Compatibility with general resins and rubber

◎:excellent ○:good △:Confirmation is required when using

### ●Flash point

When a small flame is brought close to the oil heated under the specified conditions, if the oil reaches a certain temperature or higher, the mixed gas of oil vapor and air will ignite.

This temperature is the flash point. It is used as a measure of oil flammability.

## Specific gravity

### Operating temperature

synthetic oil > semi-synthetic oil > mineral oil

### Lifespan

synthetic oil > semi-synthetic oil > mineral oil

### Oil price

synthetic oil > semi-synthetic oil > mineral oil

\*\*The characteristics and price of synthetic oils vary greatly depending on the product number. The above is a general guide, so please contact our sales and technical staff for details.