

Refrigeration oil

Sunice® P46/PB100



Sunice P46 and PB100 are Poly-alkylene glycol (PAG) type refrigeration oils for **car air conditioning systems** working with **Belt-Driven compressors**.

Sunice P46 is designed to use with either **R134a** or **R1234yf** type refrigerant, and **Sunice PB100** is for **R134a** type refrigerant.

APPLICATIONS

PAG refrigeration oils for car air conditioning systems.

- P46/PB100 are suitable for car air conditioning system with Belt-Driven compressor.
- P46 is used for **R134a/R1234yf**. PB100 is used for **R134a**.
- Both P46 and PB100 are suitable for swash plate type compressors. PB100 can be used for vane type compressors.

ADVANTAGES

Assuring excellent performance, long and trouble-free service life.

- Sunice P46 is the latest PAG oil developed with JSO's advanced technology. Its excellent chemical structure ensures stable performance in **R134a** as well as **R1234yf**.
- Sunice PB100 is JSO's long-selling PAG oil for car A/C systems, and it is very stable for **R134a** in a wide temperature range and under high pressure.

CAUTION

- Due to hygroscopic nature of product, avoid contact with ambient air as much as possible.
- Sunice P46/PB100 are NOT retrofit oil for R12 vehicle air conditioning systems. Also, NOT recommended for lubrication of Electrically-Driven compressors on EV/HV.

Typical Properties

Analysis	Unit	P46	PB100
ISO Viscosity Grade		46	100
Density at 15°C	g/cm ³	1.012	1.048
Viscosity (40 °C)	mm ² /s	46.3	94.8
Viscosity (100 °C)	mm ² /s	9.0	19.2
Pour point	°C	-45.0	-42.5
Flash point (COC)	°C	202	246

Above characteristics are mean values given as an information.

Application Table

°C = Evaporator Temp.

	Classification	P46	PB100
Refrigerant type	R1234yf	From -20°C	×
	R134a	From -40°C	From -40°C
	R12	×	×
Copressor type	Swash Plate	✓	✓
	Vane	×	✓
	Belt-Driven	✓	✓
	Electrically-Driven	×	×

For equipment under warranty, please refer to equipment builder recommendations.





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