repsol lubricants

Turbines & Compressors Oil

MAKER ICE OIL S

Description

Synthetic POE base oil for compressors, for use in very low temperature applications, such as refrigeration, air conditioning and industrial refrigeration, wherever compressors use mainly HFC type cooling gases, which are environmentally friendly and are replacing the old HCFC's.
Its special formulation enhances its excellent lubricating performance, thermal stability and anti-corrosion protection.
They are used, in order of increasing viscosity, for saturated steam, re-heated steam and steam with a high degree of re-heating. Valid for general greasing, low loaded gears and other mechanical elements where high temperature conditions may occur.
They can be used as heat transfer fluids in the case of open-air thermal circuits.

Properties

- Completely mixable with HFC gases, such as R134a.
- Low pour point.
- High viscosity index.
- High chemical and thermal stability.
- Wax free.
- Low flocculation point.

Quality levels, approvals and recommendations

- BITZER (Screw)
- BLISSFIELD (Piston) (68)
- DANFOSS COMMERCIAL (scroll and piston) (32)
- DIN 51503 KD
- DORIN (piston)
- FRASCOLD (piston)
- ISO 6743 -3B DRD

Technical specifications

	UNIT	METHOD	VALUE	
Water content	ppm	ASTM D6304	‹50	‹50
ISO Viscosity Grade			32	68
Density at 20 °C	g/cm3	DIN 51757-4	0.977	0.977
Kinematic viscosity at 40 ºC	cSt	ASTM D445	32	66
Kinematic viscosity at 100 ºC	cSt	ASTM D445	5.8	9.4
Viscosity index	-	ASTM D2270	120	120
Flash point, open cup	ºC	ASTM D92	258	270
Pour point	ºC	ASTM D97	-46	-39
Miscibility at low temperatures (10% lubricant in R-134a)	ºC	Internal	-43	-26
TAN	mg KOH/g	ASTM D664	‹0.05	‹0.05

The above mentioned characteristics are typical values and should not be considered product specifications.