

Refrigerating Machine Oil

Product Features

- Friction, wear, and the like where the particular sliding property required.
- High-temperature, high-pressure, where the need to meet the extreme lubrication conditions of the cryogenic.
- Places that require replacement intervals and machine lubricant life
- Properties of refrigerating machine oil, the type, optionally used in accordance with the characteristics of the locations to vary the viscosity
- Excellent low temperature properties, high temperature stability, high viscosity index, high extreme pressure performance and low volatility,
- Low friction coefficient, anti-emulsification, oxidation stability, rust and corrosion protection, foam stability,
- Clean sediment dispersion {Tan Mars (Ash) produced excellent anti},

Product Category

- Synthetic polyalphaolefin refrigeration oil: a linear alpha olefin oligomers (PAO)
- Synthetic ester refrigerator oil:
 - Neo polyol ester (Neopolyol esters),
 - Fatty acid ester (Di-basic acid esters)
- Synthetic poly-alpha-olefin and ester refrigerator oil: PAO & Ester mixed use

Product Applications

- All refrigeration compressors (reciprocating, rotary, centrifugal), Airconditioning used effectively for refrigerators,
- Freon refrigerant such as ammonia available, sulfur dioxide (SO₂) is not available.
- Viscosity Selection: refrigerator manufacturer recommendations followed.
- Refrigerator manufacturers temperature, pressure, like the proper viscosity in consideration of the solubility of the refrigerant.
- Pour the oil does not solidify at extremely low freezing line does not produce wax at low temperatures minutes.
- Excellent chemical stability and does not cause a chemical reaction of the foreign matter and is present in the circulatory system with the refrigerant or heat stability for a long time available.
- Always keep it clean inside with a good clean dispersion system performance.
- Excellent electrical insulation to minimize power consumption, even at high temperatures, so maintaining proper viscosity lubrication and sealing action is excellent for.
- Enable mixed with mineral oil, for use as a mineral supplement used to check the freezer area high liquid level in the crankcase oil required.
- Use mineral oil-based so than the mixed nature of this and the excellent halogen refrigerant effectively at very low temperatures.

Synthetic Polyalphaolefins Refrigerating Machine Oil : PAO Basestock

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Hi Freeze Syn 22	22	≥220	-40	135	0.01 ↓	0.01 ↓	0.05 ↓
Hi Freeze Syn 32	32.	≥220	-40	135			
Hi Freeze Syn 46	46	≥230	-40	138			
Hi Freeze Syn 68	68	≥230	-40	141			
Hi Freeze Syn 100	100	≥250	-40	142			

Synthetic Ester Basestock Refrigerating Machine Oil

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Hi Freeze DE 22	22	≥220	-40	82	0.01 ↓	0.01 ↓	0.05 ↓
Hi Freeze DE 32	32.	≥220	-40	82			
Hi Freeze DE 46	46	≥220	-40	81			
Hi Freeze DE 68	68	≥230	-40	85			
Hi Freeze DE 100	100	≥230	-40	86			

Synthetic Polyalphaolefins & Ester Basestock Refrigerating Machine Oil : PAO & Ester

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Hi Freeze PE 22	22	≥220	-40	143	0.01 ↓	0.01 ↓	0.05 ↓
Hi Freeze PE 32	32.	≥220	-40	143			
Hi Freeze PE 46	46	≥230	-40	141			
Hi Freeze PE 68	68	≥230	-40	145			
Hi Freeze PE 100	100	≥230	-40	142			