



ARTIKOOL™

AK1

SYNTHETIC POLARIZED REFRIGERATION OIL SUPPLEMENT

▶ **PART NO.'S: 574-16oz, 574-5 gallon**



TECHNICAL DATASHEET

ArtiKool Synthetic Refrigeration Oil Supplement is a synthetic (PAO) oil supplement, when added to refrigeration circuit of air conditioning or refrigeration systems, Artikool helps reduces friction of all moving component parts.

ArtiKool AK1 Synthetic Refrigeration Oil Supplement helps extend compressor life while reducing energy, heat, noise, down time, component wear, and vibration. The special inhibitors, Artikool, AK1 prevent rust prevent corrosion by attaching to all metal surfaces including, aluminum, brass, copper, and steel. It also helps conditions seals, plus prevents oxidation of refrigeration oil.

ArtiKool Synthetic Refrigeration Oil Supplement provides per-lubrication during start-up.

APPLICATIONS:

- Air conditioners
- Air cooled chillers
- All equipment with refrigeration compressors
- Centrifugal chillers
- Computer room units
- Dehumidifiers
- Drink dispensers
- Heat pumps
- Ice machines
- Process cooling equipment
- Refrigeration units
- Rotary compressors
- Roof top units
- Split systems
- Walk-in and reach-in coolers and freezers
- Water cooled chillers

APPLICATIONS:

1. May be used in all types of CFC'S & HCFC's air & refrigeration units.
2. Rotary Screw compressors.
3. Reciprocating compressors.
4. Refrigeration compressors.
5. Air compressors.
6. Commercial, industrial, heat pumps.
7. Marine refrigeration systems.
8. Residential heat pump applications.

FEATURES:

1. Synthetic PAO base stock and superior additive technology.
2. Superior anti-wear properties.
3. Excellent protection against rust and corrosion.
4. Outstanding oxidation resistance and thermal stability.
5. Good demulsibility.
6. High flash point.
7. Compatible with mineral oils.
8. Pre-lubrication during start-up.

BENEFITS:

1. Helps reduce maintenance costs.
2. Helps extends compressor life.
3. Helps reduces energy costs.
4. Helps reduce heat.

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TYPICAL SPECIFICATIONS:

ARTIKOOL

AK-1

SYNTHETIC POLARIZED REFRIGERATION OIL SUPPLEMENT

Part No.,	574
ISO Grade,	68/100
Flash Point, °F (°C),	>482 (250)
Pour Point, °F (°C),	-40 (-40)
Viscosity of Base Oil	
40°C cSt,	68.0
100°C cSt,	10.4
Viscosity Index of Base Oil,	145
Copper Strip Test,	1A
Specific Gravity,	0.854
Pounds per Gallon,	7.13

ArtiKool, AK-1 Synthetic Refrigeration Oil Supplement is suitable for compressors systems using refrigerants such as ammonia and carbon dioxide; it has excellent experience with CFC refrigerants such as R-12. It is compatible with all refrigerants except sulfur dioxide. It is fully miscible with conventional mineral oils but admixture may detract from the superior performance of the 574 product.

ArtiKool Synthetic Refrigeration Oil Supplement is compatible with mineral oil products, a mixture will detract from its performance. Systems should be thoroughly flushed and cleaned when replacing a mineral product with a synthetic product.

In the case of R-22 refrigerants, guidance from the manufacture of the refrigeration unit must always be sought to ensure installation is suitable for efficient separation of the oil and refrigerant.

HCFCs

R-22 R402B
R-123 R403B
R-124 R408A
R-401A R409A
R-401B R414B
R-402A

HCFC refers to the chemical composition of the refrigerant. HydroChloroFluoroCarbon indicates that the refrigerant is comprised of Hydrogen, Chlorine, Fluorine, and Carbon. A blend that contains both an HCHC and HFC is considered an HCFC refrigerant.

CFCs

R-11 R-114
R-12 R-500
R-13 R-502
R-13B1 R-503

CFC refers to the chemical composition of the refrigerant. ChloroFluoroCarbon indicates that the refrigerant is comprised of Chlorine, Fluorine, and Carbon. A blend that contains a CHC and any other product is still considered an CFC refrigerant.

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