



ArtiKool™

AK-2

SYNTHETIC POLARIZED REFRIGERATION OIL SUPPLEMENT

▶ **PART NO.'S: 575-16oz, to the 575-5 gallon**

TECHNICAL DATA SHEET

ArtiKool™ AK-2 Synthetic Polarized Refrigeration Oil Supplement is a synthetic oil supplement, that is designed specifically for the lubrication of refrigeration compressors and systems, using ozone-friendly HFC refrigerants. It is also recommended for carbon dioxide applications, with appropriate miscibility for proper oil return to compressor (typically piston type applications).

ArtiKool™ Synthetic Polarized Refrigeration Oil Supplement helps extend compressor life while reducing energy, heat, noise, down time, component wear, and vibration. The special ArtiKool, AK-2 inhibitors prevent rust and corrosion by attaching to all metal surfaces including, aluminum, brass, copper, and steel. It also helps conditions seals, plus prevents oxidations of refrigeration oil. ArtiKool™ Formulated (POE) Polarized Refrigeration Oil Supplement provides pre-lubrication during start-up.

APPLICATIONS:

ArtiKool™ Synthetic Polarized Refrigeration Oil Supplement is recommended for use in household refrigeration such as refrigerators, freezers, air conditioners and heat pumps. Commercial refrigeration applications such as business, shopping mall and hotel air conditioning, and low temperature transportation. Industrial application such as food preparation and freezing, as well as cryogenic systems where HFC or carbon dioxide refrigerants are used.

Available in 16oz., 32oz., 1 gallon, 5 gallon pails, and 55 gallon drums. All containers are metal.

APPLICATIONS:

1. In household refrigeration such as refrigerators, freezers, air conditioners and heat pumps.
2. Commercial refrigeration applications such as business, shopping mall and hotel air conditioning, and low temperature transportation.
3. Industrial application such as food preparation and freezing, as well as cryogenic systems where HFC or carbon dioxide refrigerants are used.

FEATURES:

1. Synthetic (POE) 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. Well defined miscibility and P-V-T relationship with HFC refrigerants..
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.

TYPICAL SPECIFICATIONS:

ARTIKOOL™

AK-2

SYNTHETIC (POE) POLARIZED REFRIGERATION OIL SUPPLEMENT

Part No.	575
ISO Viscosity Grade,	68/ 100
Flash Point, °F, ASTM D-92,	>445
Pour Point, °F, ASTM D-97,	-22
Lbs/Gal,	8
Color,	Amber
<u>Base Oils</u>	
Viscosity:	
@ 40°C, cSt, ASTM D-445,	68.0
@ 100°C, cSt, ASTM D-445,	8.7
Viscosity Index,	95

ArtiKool™ AK-2 Synthetic Polarized Refrigeration Oil Supplement are miscible with HFC refrigerants and have well-defined viscosity, temperature, pressure relationships with a widely range of HFCs. It is formulated from Polyol Esters (POEs) and a unique additive system to provide outstanding lubricity, wear protection, chemical and thermal stability, and hydrolytic stability.

ArtiKool™ AK-2 Synthetic Polarized Refrigeration Oil Supplement is hygroscopic and care must be taken to avoid moisture absorption during handling. Packages should be tightly closed when not in use, and small packaging preferred. Product should Not be transferred to plastic containers that may allow moisture ingress.

ArtiKool™ AK-2 Synthetic Polarized Refrigeration Oil Supplement are recommend for refrigeration systems where HFC or carbon dioxide refrigerants are used.

HFCs

R-23 R-422B
R-134a R-422C
R-404A R-422D
R-407A R-507
R-407C R-508B
R-410A

Distributed By:

HFC refers to the chemical composition of the refrigerant. HydroFluoroCarbon indicates that the refrigerant is comprised of Hydrogen, Fluorine, and Carbon. A blend that contains different HFCs is considered an HFC refrigerant.

July, 2015

Warranty: All products purchased from Energy Design Services., (EDS) are subject to terms and conditions set out in the contract, order acknowledgment and/or bill of lading. EDS warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by EDS is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine the product's suitability for a particular purpose. No warranty is expressed or implied regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose, or that the use of such other information or product will not infringe any patent..