



REFRIGERATION OIL 300

(Premium Freon & Ammonia Refrigeration Oil)

The design of modern air-conditioning and refrigeration compressors varies according to manufacturers. However, all require highly specialized lubricating oil. **REFRIGERATION OIL 300** meets the special requirements. It is a highly refined wax free naphthenic mineral oil with excellent stability. It provides long trouble free service life in modern compressors designed to maximize output capacity with minimum physical size.

REFRIGERATION OIL 300 has the following proven features: (1) chemical stability to resist chemical reaction with refrigerant or other material normally present in the system; (2) thermal stability to eliminate excessive hard carbon deposits at compressor hot spots such as valves or discharge ports; (3) wax free to prevent separation of flocculant material from the oil refrigerant mixture at the low temperature points in the system; (4) a low pour point to prevent oil from congealing in refrigerant lines; (5) proper viscosity, even when diluted with refrigerant, to insure high film strength at elevated operating temperatures and to provide good fluidity under the coldest operating conditions; (6) a high dielectric strength to insure good insulating properties (in hermetic units the oil refrigerant mixture serves as an insulator between the motor and the compressor body); and (7) excellent lubricity to protect compressors and system component from wear.

BENEFITS:

- EXCELLENT THERMAL STABILITY FOR LONG SERVICE LIFE
- EXCELLENT CHEMICAL STABILITY TO RESIST INTERACTION WITH REFRIGERANT GASES AND METALS IN THE SYSTEM
- WAX FREE FOR IMPROVED LOW TEMPERATURE PERFORMANCE
- EXCELLENT LUBRICITY TO PROTECT COMPRESSORS

APPLICATIONS:

REFRIGERATION OIL 300 is recommended for the lubrication of reciprocating and rotary compressors in refrigeration and air-conditioning systems including CFC (chlorofluorocarbon) refrigerants or ammonia or carbon dioxide. It is recommended for applications calling for refrigerants R-11, R-12, R-22, R-123, R-500, R-501 or R-502.

REFRIGERATION OIL 300 is not recommended for refrigeration compressors using sulfur dioxide or hydrofluorocarbon (HFC) refrigerants. This product is not suitable for use with refrigerant R-134a which requires a special synthetic lubricant.



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TYPICAL CHARACTERISTICS

Product Code	16002
API Gravity (ASTM D-1298)	23.0
Viscosity (ASTM D-445):	
cSt @ 40°C	60.1
cSt @ 100°C	6.46
SUS @ 100°F	316
SUS @ 210°F	47.9
Viscosity Index (ASTM D-2270)	26
Flash Point (ASTM D-92) °F (°C)	375 (191)
Pour Point (ASTM D-97) °F (°C)	-34 (-30)
Color (ASTM D-1500)	L0.5
Aniline Point °F (°C) (ASTM D-611)	183 (84)
Floc Point °F (°C) (ASHRA 86)	-55 (-50)
Dielectric Strength, kV (ASTM D-877)	35
Water, PPM (ASTM D-1533)	20
TAN, Mg KOH/g (ASTM D-974)	0.014
Sulfur, % (ASTM D-2622)	0.028
Freon Stability (ASHRA E-97)	Pass

The above data is subject to usual manufacturing variation. For more information and availability, call 1-800-442-LUBE.
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