

# AB REFRIGERATION FLUIDS

## (Refrigeration Fluids For Freon)

The design of modern air-conditioning and refrigeration compressors varies according to manufacturers. However, all require highly specialized lubricating oil.

**AB REFRIGERATION FLUIDS** meet the special requirements and are formulated from modified alkyl benzene base stocks to provide controlled miscibility, as well as solubility with all fluorocarbon-based refrigerants. They are mineral oil compatible and can be used to effectively retrofit an existing CFC based system. The controlled miscibility and solubility properties of the lubricants have lead to improved volumetric efficiency in compressor tests, as well as providing efficient oil return from the system. In addition, tests conducted on the fluid have shown no loss of lubricant film under diluted conditions with rolling ball elements.

**AB REFRIGERATION FLUIDS** have 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) controlled miscibility to prevent separation of flocculant material from the oil refrigerant mixture at the low temperature points in the system; (4) an extremely 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.

### **BENEFITS:**

- EXCELLENT THERMAL & OXIDATION STABILITY FOR LONG SERVICE LIFE
- EXTREMELY LOW FLOC POINTS
- EXCELLENT RUST, CARBON AND VARNISH CONTROL
- CONTROLLED MISCIBILITY WITH CFC, HCFC and BLENDED REFRIGERANTS
- EXCELLENT LUBRICITY TO PROTECT COMPRESSORS

### **APPLICATIONS:**

**AB REFRIGERATION FLUIDS** are recommended for the lubrication of reciprocating and rotary compressors in heavy-duty freezers such as those used in commercial fishing fleets where evaporation temperatures are extremely low or compressor temperatures are especially severe.

**AB REFRIGERATION FLUIDS** are recommended for applications calling for refrigerants R-22 or other fluorocarbons.

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### TYPICAL CHARACTERISTICS

Product Grade	32	68	100
Product Code			
API Gravity (ASTM D-1298)		32.1	31.5
Density, lbs/gal		7.202	7.246
Viscosity (ASTM D-445):			
cSt @ 40°C	33.9	64.9	98.5
cSt @ 100°C		6.57	8.12
SUS @ 100°F	159	301	525
Viscosity Index (ASTM D-2270)		15	10
Flash Point (ASTM D-92) °F (°C)	350 (177)	350 (177)	350 (177)
Pour Point (ASTM D-97) °F (°C)	-40 (-40)	-30 (-34)	-30 (-34)
Copper Corrosion Rating, 24hrs	1A	1A	1A
FLOC Point, °F (°C)	-100 (-73)	-65 (-54)	-76 (-60)
Sealed tube stability	0.05	0.15	0.20

\* Other grades from are available.

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

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