



marine products

Capella® Low Temp AB 68

Formerly known as Refrigeration Oil Low Temp



Description

Capella® Low Temp AB is a synthetic refrigeration compressor oil based on alkylbenzene components of the branched type. The product is recommended for use with ammonia (R717) and systems using older chlorofluoro- and hydrochlorofluorocarbon (CFCs & HCFCs — freon) refrigerants. It is suitable for a wide temperature range, including installations with very low evaporating temperatures, where mineral based products do not perform adequately.

Typical Characteristics

ISO Viscosity Grade	68
MPID	219828
Density 15°C, kg/l	0.87
Flash Point, °C	190
Pour Point, °C	42
Viscosity, kinematic mm ² /s @ 40°C	68.0
Floc point (R50), °C	58
Floc point (R12), °C	<-73

Recommended Applications

Capella Low Temp AB can be applied in screw and piston compressors in refrigeration and air-conditioning systems filled with ammonia (R717) and systems using older CFC (chlorofluorocarbon, such as R12 and R502) and HCFC (hydrochlorofluorocarbon, such as R22) refrigerants.

Capella Low Temp AB is particularly recommended in case of high compressor discharge temperatures and/or very low evaporator temperatures — temperatures below -35°C with R22, -25°C for R502.

For systems containing hydrofluorocarbon (HFC) refrigerants such as R134a, R404a, R507, etc., Capella HFC is recommended instead.

Capella Low Temp AB Is Approved For:

- Bock** R22 (CFC) and R717 (ammonia)
- Mycom (Mayekawa)** R717 (ammonia)
- Howden Compressors** R717 (ammonia)
- Sabroe** R717 (ammonia)

Capella Low Temp AB Is Suitable For Use In:

- Bitzer***
- Dorin*, Danfoss*** Tamrotor Marine Compressor
- Carrier***
- Necchi/ERC***
- Thermoking**

* approved under former name Refrigeration Oil Low Temp 68



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Performance Benefits**1. Wide operating temperature window**

Compared to mineral based refrigerating oils Capella Low Temp AB deploys higher thermal stability and lower volatility, which makes the product the better choice in case of high compressor discharge temperatures. At the same time, the low pour point and very low floc points enable lower minimum evaporator temperature over mineral based refrigerants.

2. Extended lifetime and lower maintenance cost

The thermal stability and lower volatility over mineral based refrigerating oils result in longer service life and reduced lubricant carry-over to the evaporator, where the higher solvency promotes improved system cleanliness. The formulation is free of additives which prevents the production of sludge caused by ammonia soap formation, critical for ammonia refrigeration systems.

3. Optimum lubrication

The product is miscible with CFC and HCFC refrigerants and maintains lubricity. It is formulated to protect cast iron and remains stable in the presence of CFC and HCFC as well as with ammonia.



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