Capella® A 68

High performance fully synthetic refrigeration compressor lubricant

Product description

Capella A 68 is a high performance fully synthetic refrigeration compressor lubricant designed for use in ammonia refrigeration compressors, and offers reliable performance at very low operating temperatures.

Customer benefits

- Fully synthetic formulation promotes thermal and chemical stability in the presence of ammonia
- Very low pourpoint offers reliable performance in modern, very low temperature ammonia refrigeration applications
- High VI contributes to lubrication performance and system protection during high temperature operation
- Low temperature fluidity helps reduce power consumption and promote system protection during cold starts
- Low volatility in comparison with straight mineral oils promotes reduced oil consumption
- High performance chemical stability helps optimise heat transfer performance

Product highlights

- **Fully synthetic formulation**
- **Offers stability in the presence of ammonia**
- **Suitable for very low temperature applications**
- **Offers protection in high temperature operation**
- **Helps reduce power consumption during cold starts**

Selected specification standards include:

DIN

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

Applications

- Capella A 68 is suitable for refrigeration units using ammonia
- Capella A 68 is recommended for use in refrigeration and air-conditioning systems requiring lubricants with good low-temperature characteristics
- Capella A 68 satisfies the low temperature requirements of ammonia refrigeration systems
- Capella A 68 is particularly suitable for reciprocating and screw compressors operating at discharge temperatures exceeding +100°C

Approvals, performance and suitable for use

Performance

- DIN 51503-1

Note: Capella A can contribute to seal shrinking which can lead to leakage. When there is doubt regarding the compatibility of seals with PAO based Capella A, the equipment manufacturer should be consulted. Capella A may be used with R-22 refrigerant, but only if this is expressly recommended by the compressor manufacturer and where the evaporator temperature is higher than –20°C (R22).

Typical test data

Test	Test methods	Results
Viscosity Grade		**68**
Kinematic viscosity, 40°C, mm^2/s	ASTM D445	68
Kinematic viscosity, 100°C, mm^2/s	ASTM D445	10.6
Viscosity Index	ASTM D2270	140
Flash Point COC, °C	ASTM D92	260
Pour Point, °C	ASTM D97	-54
Density, 15°C, kg/l	ASTM D4052	0.834

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).