Capella® WF

Super high performance compressor fluids

Customer benefits

Low temperature performance and protection

Capella WF is a robust and highly stable advanced technology compressor lubricant specifically formulated to deliver high performance thermal stability, particularly in the very low temperatures present in latest-generation compressors in refrigeration equipment and air conditioning systems.

Designed with specially formulated naphthenic pale oils and high performance temperature stability additive systems, these advanced fluids are designed to meet and exceed major compressor manufacturers performance requirements, delivering a very low freon floc temperature of –45°C.

High stability performance

Capella WF's leading edge low temperature performance optimises system efficiency and service life through very robust and highly reliable chemical and thermal stability. Capella WF is highly resistant to waxing at very low temperatures, protecting expansion valve efficiency and capillary performance, and ensuring smooth operation over very long service periods, with the minimum of downtime.

This efficient compressor operation is enhanced through Capella WF's chemically stable performance in the presence of ammonia and fluorinated hydrocarbons such as R-12 and R-22, minimising varnish and sludge formation over extended operating periods.

Capella WF's high performance formulation minimises water content to very low levels, delivering maximum corrosion protection, high-efficiency ice-free operation, and extended equipment service life.

Product features

Capella WF compressor lubricants deliver outstanding super-low Freon floc temperature and pour-point performance to both refrigeration systems and air conditioning units, optimising stable lubrication protection and system performance.

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

- Recommended for use in refrigeration compressors and air conditioner systems using fluorinated hydrocarbon refrigerants, or ammonia.
- Recommended for use in compressor systems running on fluorinated hydrocarbon refrigerants where minimum evaporator temperatures of –45°C (R12), -35°C (R22) and –25°C. (R502) are present.

Manufacturers approvals

Capella WF holds the following OEM approvals for several grades:

- Sulzer; Bitzer; Tecumsec; Carrier; York; Sabroe; J & E Hall

For several grades the following OEM's recommend Capella WF:

- Tecumsec, Belgium Daikin, Robert Bosch(G), Heinrich Huppman(G), Dorin(I), Matsushita(J), Trane, DWM Copeland(US), Kelvinator Inc(US), Carrier

Approvals, performance and recommendations

Performance

- DIN 51. 503 standard
- BS 2626:1992, Type A Lubricants
- NATO standard VV-L-825

Typical test data

Test	Test methods	Results		
Viscosity Grade		**32**	**46**	**68**
Visc. Kinematic at 40°C	ISO 3104	30	43.8	68
Visc. Kinematic at 100°C	ISO 3104	4.4	5.4	6.7
Colour	ISO 2049	0.5	1.0	<1.5
Flash Point, °C	ISO 2592	178	188	198
Pour point, °C	ISO 3016	-45	-39	-36
Density, 15°C, Kg/l	ASTM D0941	0.906	0.910	0.915

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.