Capella HFC

High performance refrigeration oils for HFC/FE refrigerants

Product description

Capella® HFC refrigeration oils are high performance fully synthetic fluids designed for the lubrication of compressors used in refrigeration and air conditioning systems and are blended exclusively with specially selected polyol esters (POE).

Customer benefits

- Designed for thermal and chemical stability with environmentally safe hydro fluorocarbon (HFC) refrigerants R134a, R404a and R410A.
- Formulated for oil-refrigerant miscibility properties with HFC and FC refrigerants over a wide range of operating temperatures.
- Helps provide high performance compressor cleanliness in numerous compressor tests.
- Promotes absence of copper transfer.
- Synthetic lubrication technology.

Product highlights

- **Designed for stability with HFC refrigerants R134a, R404a and R410A**
- **Formulated for miscibility with HFC and FC refrigerants**
- **Helps maintain compressor cleanliness**
- **Promotes copper transfer resistance**
- **Synthetic lubrication technology**

Selected performance standards include:

Bitzer	Carrier
DIN	Dorin
GEA BOCK	GEA Grasso
Hi-Air Korea compressors	JCI
Mayekawa	RefComp

Applications

CAPELLA HFC oils have been specifically developed in cooperation with major refrigerant compressor manufacturers worldwide, especially suitable for non-ozone depleting FC/HFC refrigerants, such as R134a, R404A, R507, R410A, R407C. Also suitable for hydrocarbon refrigerants such as propane, polypropylene, and isobutane, and HFO and HFO/HFC refrigerants.

Capella HFC 170 and HFC 220 are especially suitable for deep-freeze systems operating with R23 and for systems operating with hydrocarbon refrigerants (e.g. propane, polypropylene, isobutene) and R22.

The Capella HFC series is recommended for hermitical, semi-hermetical and open piston compressors and for screw-type and turbo-compressors.

Capella HFC oils are especially suited for the first fill and retrofit lubrication of refrigeration compressors in large food retails, industrial systems, air conditioning and heat pump equipment and cooling systems in the transport sector.

Capella HFC series are also suitable for hydrocarbon refrigerants, such as propane, polypropylene and isobutane.

Approvals, performance and suitable for use

Approvals

- GEA Grasso
- GEA BOCK
- RefComp
- Mayekawa

Performance

- DIN 51503-1: KC, KD and KE

Suitable for use

- Bitzer
- JCI (Sabro, Stal and York)
- Carrier
- Dorin
- Hi-Air Korea compressors

Product maintenance and handling

Capella HFC oils are designed to readily absorb moisture from the surrounding air (hygroscopic behaviour), which can cause system performance problems. Capella HFC packs should be kept sealed until time of use and should not be reused once opened (to protect against atmospheric humidity).

The performance of Capella HFC can be influenced by a series of factors, including the specific use, method of application, the operational environment, component pre-treatment, and possible external contamination.

Please ensure the proper OEM recommendations are followed.

Typical test data

Test	Test Methods	Results					
Viscosity Grade		**32**	**55**	**68**	**100**	**170**	**220**
Shelf Life: 36 months from date of filling indicated on the product label.							
Kinematic viscosity at 40°C, mm²/s	ASTM D445	32	55	68	100	173	220
Kinematic viscosity at 100°C, mm²/s	ASTM D445	5.7	8.6	8.9	11.2	17.1	19
Viscosity Index	ASTM D2270	140	138	104	102	106	98
Flash Point COC, °C	ASTM D92	>240	>240	>240	>240	260	294
Pour Point, °C	ASTM D97	<-48	<-39	-39	<-30	-27	-37
Density at 15°C, kg/l	ASTM D4052	1.005	1.010	0.972	0.972	0.972	0.976

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).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

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.

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