Capella® HFC

Synthetic Refrigeration Compressor Oil

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 with specially selected polyol esters (POE).

Customer benefits and product features

- Designed for thermal and chemical stability with 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 conducted by Chevron

- Helps promote minimal copper transfer

- Synthetic lubrication technology

Applications

- Capella® HFC oils have been specifically developed in cooperation with major refrigerant compressor manufacturers worldwide and are 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

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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.

Typical test data

CAPELLA® HFC	TEST METHOD	RESULTS					
ISO Grade		32	55	68	100	170	220
Product Code		560570	565020	560427	560573	560574	560575
Viscosity Index	ASTM D2270	140	138	0.972	0.9704	0.972	0.976
Density, kg/L @ 15°C	ASTM D4052	1.005	1.011	0.972	100.0	173	220
Pour Point, °C	ASTM D97	-48	-39	-39	-30	-27	-27
Flash Point, COC °C	ASTM D92	>240	>240	250	266	260	294
Viscosity, Kinematic,							
mm²/s @ 40°C	ASTM D445	32	53	68	100	173	220
mm²/s @ 100°C	ASTM D445	5.70	8.40	8.9	11.4	17.1	19.0