



marine lubricants

# Capella® HFC



## Description

Capella® HFC is a premium-grade, fully synthetic oil for the lubrication of compressors used in refrigeration and air conditioning systems. Capella HFC is blended exclusively with specially selected polyolesters. It has a high viscosity index ensuring a good lubricity over a wide temperature range.

## Typical Characteristics

ISO Viscosity Grade	32	46/68	100
MPID	219405	219411	219404
Density 15°C, kg/l	1.005	1.011	0.970
Flash Point, COC, °C	>240	>270	>260
Pour Point, °C	-57	-51	-30
Viscosity, kinematic			
mm <sup>2</sup> /s @ 40°C	32	53	100
mm <sup>2</sup> /s @ 100°C	5.7	8.4	11.4
Viscosity Index	119	132	100
Acid No., mg KOH/g	0.03	0.03	0.03

## Recommended Applications

Capella HFC lubricants have been developed in cooperation with major refrigerant compressor manufacturers worldwide, specifically for use with chlorine-free hydrofluorocarbon (HFC) refrigerants, such as R134a, R404a, R410a or R507, etc. The product series are especially suited for the first-fill and retrofit lubrication of refrigeration compressors in provision and industrial refrigeration plants, as well as in air-conditioning systems and heat pump equipment.

Capella HFC grades are not recommended for use in ammonia refrigerating systems, where Capella WF or Capella A are recommended instead.

Note: Capella HFC lubricants readily absorb moisture from the ambient air, which can cause system performance problems. Capella HFC packages should be kept sealed until time of use and should not be reused once opened.

## Capella HFC Meets The Requirements Of:

**DIN** 51503-1 Groups KC, KD, KE

## Capella HFC Is Recommended For Use In:

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> <b>Bitzer</b> | <input checked="" type="checkbox"/> <b>ABB Stal Refrigeration AB</b> |
| <input checked="" type="checkbox"/> <b>Bock</b>   | <input checked="" type="checkbox"/> <b>Sulzer</b>                    |
| <input checked="" type="checkbox"/> <b>Dorin</b>  | <input checked="" type="checkbox"/> <b>Ushio Reinetsu</b>            |
| <input checked="" type="checkbox"/> <b>GEA</b>    | <input checked="" type="checkbox"/> <b>Carrier</b>                   |
| <input checked="" type="checkbox"/> <b>Grasso</b> | <input checked="" type="checkbox"/> <b>York</b>                      |
| <input checked="" type="checkbox"/> <b>Sabro</b>  |  |



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### Performance Benefits

#### 1. Efficient, Trouble-free Operation

Exhibits excellent oil-refrigerant miscibility properties with HFC-refrigerants over a wide range of operating temperatures, which helps ensure adequate lubrication of the compressor bearings and to facilitate oil return from the refrigeration system.

#### 2. Minimum Downtime

Provides excellent thermal and chemical stability in the presence of hydrofluorocarbon (HFC) refrigerants. Demonstrated excellent compressor cleanliness with absence of any copper transfer in numerous compressor tests.

#### 3. Lower Maintenance Costs

High resistance to oxidation, even at high operating temperatures, which helps guarantee a long service life. Provides excellent lubricity, even in the presence of refrigerants.



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