

RENISO ACC HV

Refrigeration oil for CO₂ applications. Especially suitable for A/C applications with transcritical CO₂

Description

RENISO ACC HV is a fully synthetic refrigeration oil based on special double end-capped polyalkylene glycols (PAG in ISO VG 68). RENISO ACC HV was developed especially for compressors in vehicle A/C systems which require a refrigeration oil with higher viscosity. RENISO ACC HV guarantees excellent wear protection and a very high thermal and chemical stability under CO₂ atmosphere.

Application

RENISO ACC HV was especially developed for the use in CO₂ A/C systems (transcritical CO₂ application). RENISO ACC HV is also recommended for the use in subcritical and transcritical CO₂ systems.

RENISO ACC HV is ultra-dehydrated (due to the polar character of the double end-capped polyalkylene glycol base oil, the product is hygroscopic. Please take care when handling).

Advantages

- **High thermal stability**
- **High chemical stability with CO₂ refrigerant**
- **Excellent viscosity-temperature behaviour, excellent deep-temperature flowability**
- **Excellent wear protection even at high pressure levels under CO₂ atmosphere**
- **Proven effectiveness in a wide variety of trial and prototype systems**
- **ISO VG 68:
Higher viscosity for more stable lubricating films**

RENISO ACC HV

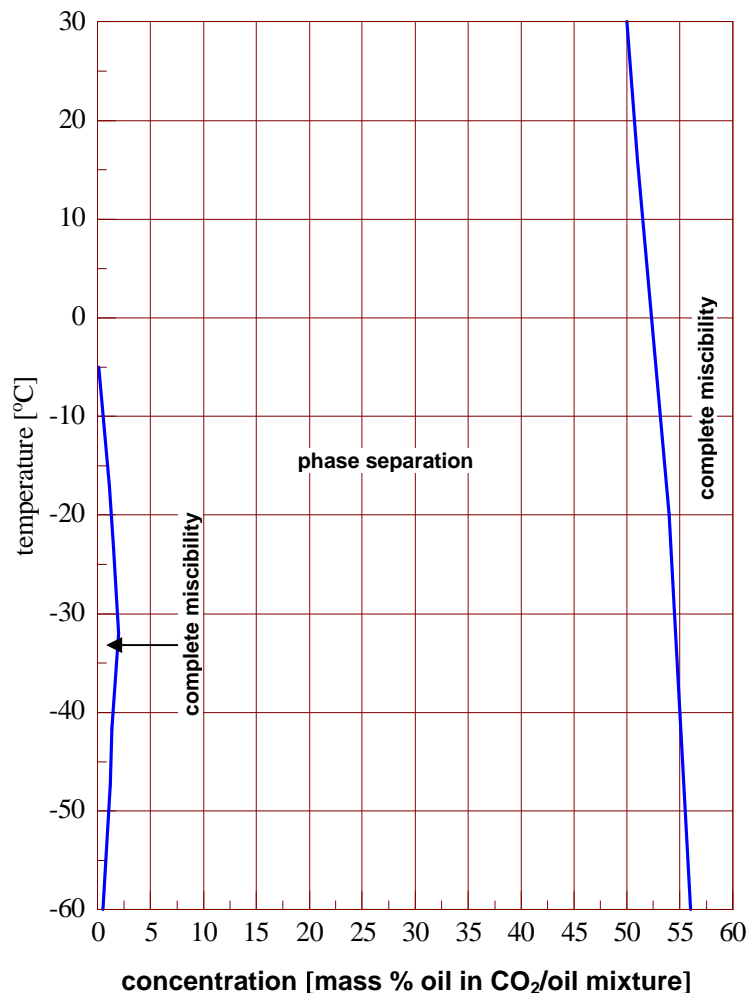
Refrigeration oil for CO₂ applications.
Especially suitable for A/C applications
with transcritical CO₂

Typical technical data:

Properties	Unit	Data	Test method
Colour		0.5	DIN ISO 2049
Density at 15 °C	kg/m ³	991	DIN 51757
Flashpoint	°C	229	DIN ISO 2592
Kinematic viscosity at 40 °C	mm ² /s	65	DIN EN ISO 3104
at 100 °C	mm ² /s	13.52	
Viscosity index	-	216	DIN ISO 2909
Pourpoint	°C	-45	DIN ISO 3016
Neutralisation number	mgKOH/g	0.02	DIN 51558-1
Water content	mg/kg	max. 350	DIN 51777-2

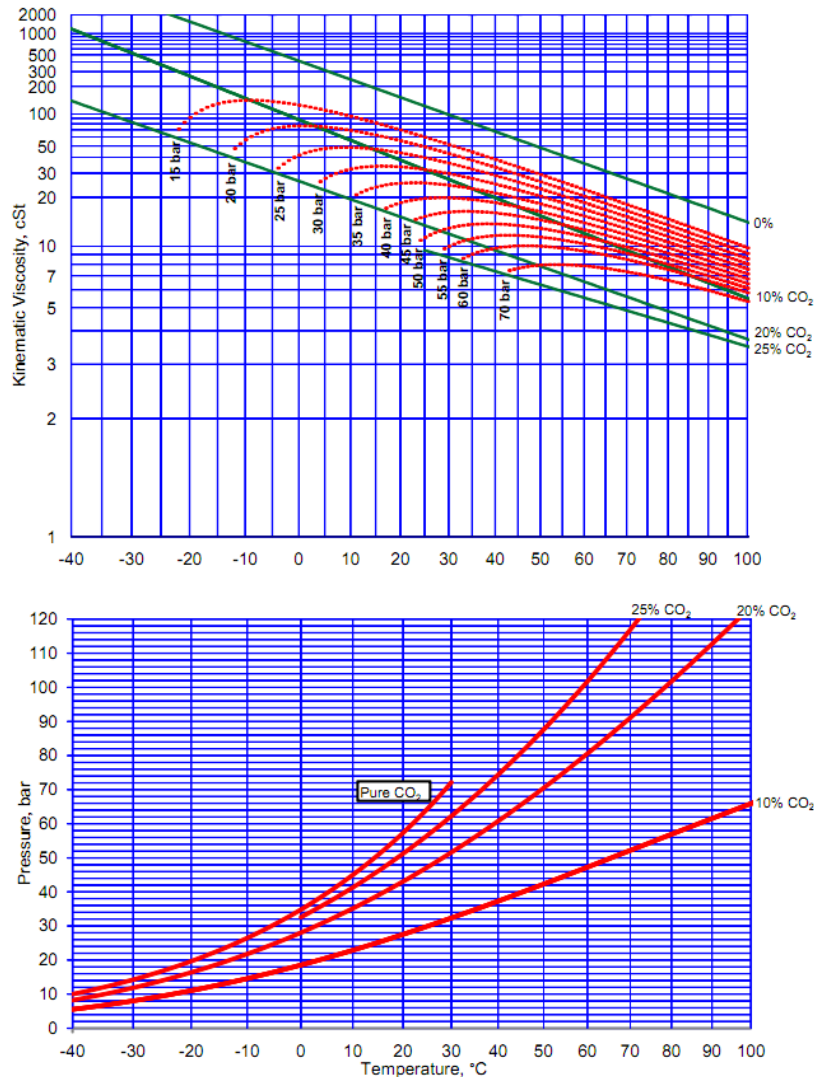
RENISO ACC HV Refrigeration oil for CO₂ applications. Especially suitable for A/C applications with transcritical CO₂

Miscibility behaviour (miscibility gap): RENISO ACC HV and CO₂



RENISO ACC HV Refrigeration oil for CO₂ applications. Especially suitable for A/C applications with transcritical CO₂

Kinematic viscosity and vapour pressure: RENISO ACC HV and CO₂



All % figures represent mass % refrigerant in oil/refrigerant mixture.

PI 4-1402, Page 4 - PM 4 / 09.15

RENISO ACC HV **Refrigeration oil for CO₂ applications.** **Especially suitable for A/C applications** **with transcritical CO₂**

The information contained in this product information is based on the experience and know-how of FUCHS SCHMIERSTOFFE GMBH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. Our products must not be used in aircrafts/spacecrafts or their components, unless such products are removed before the components are assembled into the aircraft/spacecraft. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS SCHMIERSTOFFE GMBH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

Our products undergo continuous improvement. We therefore retain the right to change our product program, the products, and their manufacturing processes as well as all details of our product information sheets at any time and without warning, unless otherwise provided in customer-specific agreements. With the publication of this product information, all previous editions cease to be valid.

Any form of reproduction requires express prior written permission from FUCHS SCHMIERSTOFFE GMBH.

© FUCHS SCHMIERSTOFFE GMBH. All rights reserved.