

## MARINE AND INDUSTRIAL LUBRICANTS

### CEPSA NORTHER HFC

#### DESCRIPTION

Synthetic lubricant oils specially designed for the lubrication of refrigeration compressors that use ozone-friendly HFC refrigerants (HFC products are chlorine-free and replace chlorinated refrigerants). These oils are formulated based on synthesized polyesters and an exclusive combination of additives to guarantee effective protection against wear, as well as thermal, chemical and hydrolytic stability.

#### PRODUCT APPLICATION

- Lubricant oils designed for use in refrigeration systems that use HFC refrigerants. The product is recommended for applications such as freezing, air conditioning equipment and food preparation domestics and industrials.
- These are hygroscopic products and special care should be taken to avoid the absorption of humidity during their use.

#### PRODUCT PERFORMANCE

- Thermal stability tests confirm excellent performance of the lubricant at high temperatures in the presence of refrigerant, water and metal components. This allows improved evaporator cleaning, less unexpected downtime and reduced maintenance costs.
- Very good anti-wear properties, reducing maintenance costs.
- Wide range of viscosities, meeting the specific viscosity requirements of the equipment and its applications.
- Improves the efficiency of refrigeration equipment, providing good lubricity and oil separation properties.

#### SPECIFICATIONS

- ISO 6743/3: DRD
- Meet the standard OEM (manufacturers): HOWDEN, FRASCOLD, AERZEN, BOCK, SABROE, MCQUAY, SULZER, etc.

#### TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	METHOD	CEPSA NORTHER HFC	
<b>ISO GRADE</b>			<b>32</b>	<b>68</b>
Density 15°C,	kg/l	D-4052	0.981	0.962
Flash Point COC, min.	°C	D-92	250	250
Pour point, max.	°C	D-97	-54	-39
Viscosity at 40°C	cSt	D-445	34.6	69.5
Viscosity at 100°C	cSt	D-445	6.0	9.1
TAN	mgKOH/g	D-974	<0.1	<0.1
Water Content	ppm	KARL FISHER	<50	<50

#### HEALTH & SAFETY AND ENVIRONMENT

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product in accordance with the applicable legislation.