

# PLANETELF ACD



Compressor



Synthetic Polyolester oils for refrigerating compressors using HFC refrigerants.

## UTILISATIONS

Refrigerating  
compressors using  
HFC refrigerants

- Compatible with all kinds of HFC refrigerants: R134a, R404A, R407C, R410A, R507, R23...
- **PLANETELF ACD 32, 46** and **68** are suitable for piston compressors.
- **PLANETELF ACD 68, 100FY, 150FY** and **220FY** are suitable for rotary compressors (screw or centrifugal).

## SPECIFICATIONS

OEM approvals/  
references

- AERZEN, BOCK, CARRIER, FRASCOLD, GRAM, GRASSO, HOWDEN, MCQUAY, SABROE, SULZER, TECUMSEH, YORK.

## ADVANTAGES

Protects the different  
components of the  
refrigerating loop

- ASHRAE thermal stability tests confirm the excellent behavior of the lubricant at high temperature in presence of refrigerant, water and metallic components.
- Neutral behaviour with the refrigerating equipments (Anti-rust, anti-corrosion properties with copper metals, compatibility with varnishes, elastomers and paints, high resistance to hydrolysis)

Enhances the  
efficiency of the  
refrigerating  
equipment

- Low dilution of refrigerant in oil for the high viscosity grades (PLANETELF ACD FY range), for good lubricity and oil separation properties (low carry-over)
- The good miscibility of the fluid viscosities of **PLANETELF ACD** allows a good oil return property, specially in dry-ex equipments.

TYPICAL CHARACTERISTICS	METHODS	UNITS	PLANETELF ACD					
			32	46	68	100FY	150FY	220FY
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	981	971	962	958	991	1019
Kinematic viscosity at 40°C	ISO 3101	mm <sup>2</sup> /s	34.6	48.6	69.5	101	150	220
Kinematic viscosity at 100°C	ISO 3101	mm <sup>2</sup> /s	6.0	7.5	9.1	11	15.5	20.8
Pour Point	ISO 3116	°C	-54	-45	-39	-36	-33	-30
Flash point (COC)	ISO 2592	°C	250	250	250	268	264	264
Acid number	ASTM D 974	mgKOH/g	<0.1	<0.1	<0.1	<0.1	<0.15	<0.2
Water content	KARL FISHER	ppm	<50	<50	<50	<50	<100	<100

Above characteristics are mean values given as an information.

The miscibility and viscosity curves are available upon request.

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
02-12-2008 (supersedes 03-10-2005)  
PLANETELF ACD  
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from [www.quick-fds.com](http://www.quick-fds.com).