

PLANETELF ACD



Lubrication



Synthetic Polyolester oils for refrigerating compressors using HFC refrigerants.

UTILISATIONS

Refrigerating compressors using HFC refrigerants

- Compatible with all kinds of HFC type refrigerants (R134a, R404A, R407C, R410A, R507, R23, ...).
- The **PLANETELF ACD 22, 32, 46** and **68** are suitable for piston compressors.
- The **PLANETELF ACD 68, 100FY, 150FY** and **220FY** are suitable for rotary compressors (screw or centrifugal).
- The **PLANETELF ACD 68M** is specially suitable for ultra low temperature applications (R23 at <-50°C) or for retrofit operations.

SPECIFICATIONS

OEM approvals

- The **PLANETELF ACD** are approved by a large number of compressor manufacturers : AERZEN, BOCK, CARRIER, FRASCOLD, GRAM, GRASSO, HOWDEN, J&E HALL, MCQUAY, SABROE, SULZER, TECUMSEH, YORK, ...

ADVANTAGES

Protects the different components of the refrigerating loop

- ASHRAE thermal stability tests confirms the excellent behavior of the lubricant at high temperature in presence of refrigerant, water, and metallic components.
- Neutral behavior 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							
			22	32	46	68	68M	100FY	150FY	220FY
Density at 15°C	ISO 3675	kg/m ³	991	981	971	962	993	960	995	1020
Kinematic viscosity at 40°C	ISO 3101	mm ² /s	22.7	34.6	48.6	69.5	70.1	100	151	233
Kinematic viscosity at 100°C	ISO 3101	mm ² /s	4.7	6.0	7.5	9.1	9.9	11.3	16.5	23.4
Pour Point	ISO 3116	°C	<-60	-54	-45	-39	-42	-33	-33	-30
Flash point OC	ISO 2592	°C	250	250	250	250	272	270	272	274
Acid number	ASTM D 974	mgKOH/g	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.15	<0.1
Water content	KARL FISHER	ppm	<50	<50	<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

09-12-2003 (supersedes 14-02-2003)

PLANETELF ACD

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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.

