



### Description

Synthetic Polyolester oils for refrigerating compressors using HFC refrigerants.

### Applications

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

### Approvals

OEM's approvals:

- + BOCK, GRASSO, HOWDEN, YORK.

## Auxiliary Synthetic Lubricants

### Features and Benefits

- + ASHRAE thermal stability test confirms the excellent behaviour 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.
- + Low dilution of refrigerant in oil for the high viscosity grades, 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. Oil will not reduce then the efficiency of the heat exchangers.

### Typical Characteristics

	Methods	Units	32	46	68	100FY
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	988	975	970	960
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	34.6	48.6	69.5	101
Kinematic viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	6.0	7.5	9.1	11
Flash Point (COC)	ASTM D 92	°C	> 250	> 250	> 250	> 260
Pour Point	ISO 3016	°C	- 54	- 45	- 39	- 36
Acid number	ASTM D 974	mgKOH/g	< 0.1	< 0.1	< 0.1	< 0.1
Water content	KARL FISHER	ppm	< 50	< 50	< 50	< 50

Characteristics of this chart are indicative typical values.

### ! Handling, Health & Safety

Lubricants consisting of synthetic oils with specific additives. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: [www.quickfds.com](http://www.quickfds.com) and [www.totallubmarine.com](http://www.totallubmarine.com)