



Synthetic polyolester oils for refrigerating compressors using HFC refrigerants.

#### APPLICATIONS

Refrigerating compressors using HFC refrigerants.

#### FEATURES AND BENEFITS

Compatible with all kinds of HFC refrigerants such as R134a, R404A, R407C, R410A, R507, R23 etc.

#### SPECIFICATIONS AND APPROVALS

✓	ISO 6521-3	✓	ISO 6743-3 DRD
✓	YORK		

#### TECHNICAL DATA : PLANETELF ACD 220 FY

CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	1015
Kinematic viscosity at 40°C	ISO 3101	mm <sup>2</sup> /s	220
Kinematic viscosity at 100°C	ISO 3101	mm <sup>2</sup> /s	20.8
Acid number	ASTM D974	mgKOH/g	< 0.2
Water content	KARL FISHER	ppm	< 100
Flash Point (OC)	ISO 2592	°C	> 260
Pour Point	ISO 3016	°C	- 33

\*The specifications above are for illustrative purposes and communicated for information only.

## CUSTOMER BENEFITS

✓	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.
✓	The good miscibility of the fluid viscosities of <b>PLANETELF ACD</b> allows a good oil return property, specially in dry-ex equipments.

## GENERAL RECOMMENDATIONS

### COMPATIBILITY

Compatibility should be checked.

Please consult your Lubmarine Lubrication Engineer should you have any questions.

### STORAGE

This product should be stored under cover in clean, dry conditions and protected from frost.

Recommended storage temperature range is 5°C to 50°C.

Drums that are stored on deck should be raised on pallets and covered to protect from the elements.

Always check regularly for leakage.

## COMPLIMENTARY PRODUCTS AND SERVICES

✓	<b>DiagomarPlus</b> – Laboratory based used oil analysis program.
✓	<b>Tech'Care</b> – Suite of onboard testing kits.
✓	<b>Technical Expertise &amp; Support</b> – Lubmarine engineers are on hand at worldwide locations to assist with lubrication concerns.
✓	<b>Lube-On-Ship</b> – Visualize your lube oils needs aboard Total Lubmarine's innovative virtual vessel.

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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 can be obtained via your Total Lubmarine technical advisor or from [sdstotalms.total.com](http://sdstotalms.total.com)

