

Refrigeration Lubricants

CARINA ES

POE Based Synthetic Refrigeration Compressor Oils



Description

CARINA ES lubricant range is based on synthetic polyol esters (POE) formulated for performance in refrigeration and air conditioning compressors using HFC, CFC or HCFC refrigerants.

Features

These synthetic lubricants are chemically and thermally stable for cleaner operating performance, and provide wear protection for contact surfaces for longer system life and system efficiency. They are miscible over the required broad temperature ranges of commercial/industrial systems.

Typical Physical and Chemical Properties

CARINA ES	Test Method	22	32	46	55	68	100
Appearance	Visual	C & B	C & B	C & B	C & B	C & B	C & B
Kinematic Viscosity @ 40°C, cSt	ASTM D 445	22	32	46	55	68	95
Kinematic Viscosity @ 100°C, cSt	ASTM D 445	4,20	5,85	7,25	8,20	9,10	11
Neutralization Number, mg KOH/g	ASTM D 974	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01
Density @ 15°C, g/cm ³	ASTM D 1298	0,995	0,985	0,980	0,970	0,964	0,961
Flash Point COC, °C	ASTM D 92	240	250	251	253	260	265
Pour Point, °C	ASTM D 97	-50	-45	-42	-40	-39	-27
CARINA ES		120	170	220	320	370	
Appearance	Visual	C & B	C & B	C & B	C & B	C & B	
Kinematic Viscosity @ 40°C, cSt	ASTM D 445	120	165	220	320	370	
Kinematic Viscosity @ 100°C, cSt	ASTM D 445	13,6	17	19	27	31	
Neutralization Number, mg KOH/g	ASTM D 974	<0,01	<0,01	<0,01	<0,01	<0,01	
Density @ 15°C, g/cm ³	ASTM D 1298	0,965	0,968	0,968	0,970	0,972	
Flash Point COC, °C	ASTM D 92	275	290	288	289	290	
Pour Point, °C	ASTM D 97	-27	-26	-26	-25	-24	

Packaging and Storage

Should be stored sealed under normal storage conditions. Shelf life in original package and at room temperature is 2 years. Available in 5 LT & 20 LT pails and 208 LT drums.

Health and Work Safety

Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling. Avoid eye and prolonged skin contact. Wash thoroughly after handling material. For more information please see the Material Safety Data Sheet (MSDS).

Data brought back in the present informative technical sheet describe the indicative medium characteristics of the product: these can be varied without warning and they do not constitute sale specifications. Rev. Date: 09/2016

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Manufactured in an ISO 9001,
14001 and 18001 certified plant.