

SynCold[®] PAG Series

Refrigeration Compressor Lubricant

Introduction

SynCold[®] PAG series are synthetic polyalkylene glycol (PAG) refrigerant lubricants specifically developed for automotive, commercial, and industrial refrigeration and air conditioning compressors. These unique custom blends of PAG and additives offer exceptional resistance to dilution by hydrocarbons and other compressed gases, particularly in flooded screw compressors. Additional benefits include thermal stability, low ash content, high viscosity index, shear stability, and outstanding lubricating properties.

Most automotive and truck A/C systems utilize Japanese or American-made compressors and R134a refrigerant. These compressors require synthetic PAG based lubricants, such as SynCold[®] PAG 46 or SynCold[®] PAG 100, due to their excellent compatibility with R134a.

SynCold[®] PAG 150 is specifically formulated for hydrocarbon gas compressors, including those using propane (R290) and propylene (R1270). This lubricant is designed for use in screw compressors and offers unique advantages in resisting hydrocarbon and compressed gas dilution.

Applications and Compressor Types

- HFCs, HFOS, CO₂
- Methane, ethane, ethylene, propane, propylene, butane, butene, butadiene and other chemical gases, such as ammonia, vinyl chloride monomer
- Lubricants for liquefied petroleum gas (LPG), hydrocarbon gas (HC gas), and liquefied natural gas (LNG) compressors
- Reciprocating, Screw, Rotary, Centrifugal, and Scroll compressors

Features

Features	Benefits
Thermal Stability	Superior chemical stability and oxidation resistance for extended operation.
Improved Oil Efficiency	Improve oil utilization and performance.
Compatibility	Excellent compatibility with common refrigeration system components.
Wide Viscosity Range	Wide viscosity range to meet the specific needs of various equipment and applications.
Exceptional Bearing Lubrication	Stable lubrication film at high temperatures for reliable protection under demanding conditions



Goncord Chemical (Singapore) Pte Ltd

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Specifications

Compliance standards: Q/GH 1010

Meet the following standards:

- (DIN) DIN51503-1, German Society of Standardization
- (JISC) JIS K2211, Japanese Industrial Standards Survey (JISC)
- BS 2626, The British Standards Institute (BS)

Properties

Product Name	PAG46	PAG68	PAG100	PAG150	Test Method
ISO viscosity grade	46	68	100	150	GB/T 3142
Viscosity @40° C, mm ² /s	44.5	68.1	102.0	148.0	GB/T 265
Color	<0.5	<0.5	<0.5	<1.5	GB/T 6540
Density @20° C, kg/m ³	986	993	1014	1020	SH/T 0604
Viscosity Index	192	197	215	220	GB/T 1995
Flash point, ° C	192	196	226	256	GB/T 3536
Pour point, ° C	-52	-48	-45	-42	SH/T0886
Acid value, mg KOH/g	<0.02	<0.02	<0.02	<0.02	GB/T 4945
Extreme pressure (Falex) Failure load, N	4250	4450	4600	4650	SH/T 0187

SynCold® PAG Series is available in various viscosities to meet user specific needs. Additional information is available upon request.

Health and Safety

Refer to the Material Safety Data Sheet (MSDS) on the official website for health and safety information.

Package size

200L drums, 20L pails, 10L pails, 4L containers, 1L bottles



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