

CPI®-4600 Series

Propylene Refrigeration Compressor Lubricant



Description

The **CPI®-4600 Series** compressor lubricants are formulated using premium polyalphaolefin (PAO) synthetic base fluids.

These compressor lubricants feature excellent thermal and oxidative stability enabling them to operate over a wide range of temperatures. The lubricants have low volatility and exhibit excellent miscibility with hydrocarbon gas and good compatibility with mineral oil lubricants.

The **CPI®-4600 Series** is recommended for refrigeration services due to excellent low temperature properties. They are wax free as they are synthetic fluids. A low pour point prevents lubricants from congealing in refrigeration lines. High film strength provides lubricity even when diluted with refrigerant.



Applications and Compressor Type

- Propylene refrigeration
- Oil flooded rotary screw compressors
- Liquid ring vacuum pumps
- Other applications requiring an oxidative and thermally resistant lubricant

Features and Benefits

Hydrocarbon miscibility

Oxidatively stable

Low volatility

Excellent lubricity

High viscosity index

Work well with hydrocarbon gas in industrial refrigeration systems

Longer system life

Reduced maintenance and reduced top-offs

Increased efficiency and reduced cost of operation

Small viscosity changes over wide temperature ranges

Typical Properties

Test Procedure	ASTM Test Method	CPI®-4600-32	CPI®-4600-46	CPI®-4600-68	CPI®-4600-100	CPI®-4600-150
ISO VG		32	46	68	100	150
Viscosity at 40°C (cSt)	D445	30.9	46.9	68.5	97.3	146
Viscosity at 100°C (cSt)	D445	5.9	7.9	10.4	14.2	19.4
Viscosity Index	D2270	137	139	139	150	152
Density at 20°C (g/mL)	D4052	0.8240	0.8292	0.8352	0.8160	0.8196
Specific Gravity (g/mL)	D4052	0.825	0.829	0.835	0.834	0.838
Pour Point (°C)	D97	-65	-60	-51	-51	-48
Flash Point (°C)	D92	244	246	248	238	260
Fire Point (°C)	D92	272	273	276	243	266

This product is available in other viscosities and in a variety of packages. These values are not intended for use in preparing specifications. Additional information is available upon request.

CPI is a world leader in the synthetic lubricants industry with operations in North America, Europe, Africa and Asia Pacific regions.

In addition to our CPI®-4600 lubricants, CPI offers lubricants for any refrigeration application including HFC, HCFC, and HFO domestic and automotive air conditioning, commercial and industrial refrigeration and low Global Warming Potential (GWP) refrigerants such as Carbon Dioxide, other Hydrocarbons, and Ammonia.

CPI also offers a comprehensive range of Industrial Lubricants for Process Gas, Hydrocarbon Gas, Air Compressors, Vacuum Pumps, Hydraulics, Gears, Chains, Turbine, and many NSF H1 & H2 Food Grade applications.

CPI is ISO 9001 and ISO 14007 accredited and earned the 1993 Stratospheric Ozone Protection Award from the Environmental Protection Agency. Also registered for the manufacture of Halal, Kosher, and Pareve products.

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