

# CPI®-4600-F Series

## Food Grade Compressor Lubricants



### Description

The **CPI®-4600-F** Series compressor lubricants are formulated using premium polyalphaolefin (PAO) synthetic base fluid, coupled with an unparalleled high performance additive package.

These compressor lubricants feature superior thermal and oxidation stability enabling them to operate over a wide range of temperatures without coking, deposit formation, or corrosion. The lubricants have low volatility and compatibility with mineral oil lubricants.

The **CPI®-4600-F** Series are non-toxic and accepted for use in food processing facilities where NSF H1 Certified products are permitted.

### Applications and Compressor Type

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

### Features and Benefits

<b>Oxidatively stable</b>	Longer system life
<b>Low volatility</b>	Reduced maintenance, reduced top-up
<b>Corrosion protection</b>	Enhanced system reliability and reduced down-time
<b>Excellent lubricity</b>	Increased efficiency, reduced cost of operation
<b>Food grade certified</b>	NSF H1 certified for use within food processing environments

Test Procedure	ASTM Test Method	CPI®-4600-32-F	CPI®-4600-46-F	CPI®-4600-100-F
<b>ISO VG</b>		32	46	100
<b>Density, g/mL</b>	<b>D4052</b>			
20.0°C		0.830	0.833	0.836
<b>Water Content, ppm</b>	<b>D6304</b>	12	14	17
<b>Total Acid Number, mgKOH/g</b>	<b>D974</b>	0.22	0.18	0.21
<b>Flash and Fire Point,</b>	<b>D92</b>			
Flash Point °C		240	246	236
Fire Point °C		268	273	243
<b>Autoignition Temperature °C</b>	<b>E659</b>	360	384	377
<b>Kinematic Viscosity, cSt</b>	<b>D445</b>			
40°C		30.5	47.0	100.0
100°C		6.0	7.9	14.2
<b>Viscosity Index</b>	<b>D2270</b>	140	139	150
<b>Pour Point, °C</b>	<b>D97</b>	-66	-42	-51
<b>Foaming Tendency, mL</b>	<b>D892</b>			
Sequence I		0/0	10/0	0/0
Sequence II		0/0	0/0	30/0
Sequence III		0/0	10/0	0/0
<b>Air Release</b>	<b>D3427</b>			
mL		0.0	0.0	4.3
<b>Conradson Carbon Residue</b>	<b>D189</b>			
% Residue		0.000	0.001	0.001
<b>Noack Volatility</b>	<b>D972</b>			
% Loss		1.8	2.4	1.5
<b>Rust Test</b>	<b>D665</b>			
A - Distilled Water		Pass	-	-
B - Salt Water		Pass	-	-

**This product is also available in other viscosities and in a variety of packages. Additional test data is available on request. Please contact CPI for more information.**

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-F lubricants, we also offer a comprehensive range of Industrial Lubricants for Process gas, Hydrocarbon gas, Air Compressors, Vacuum Pumps, Hydraulics, Gears, Chains, Turbine, Landfill Gas, Field Gas, Chemical Process and many NSF H1 & H2 Food Grade applications.

We also offer lubricants for any refrigeration application including HFC, HCFC and HFO refrigerants, 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 is ISO 9001 and ISO 14001 accredited and also registered for the production of Halal, Kosher and Pareve products.

**CPI Fluid Engineering**  
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