

CPI®-1507 Series

Hydrocarbon Process Gas Compressor Lubricants



Description

The **CPI®-1507** Series compressor lubricants are formulated using premium polyalkylene glycol (PAG), coupled with a high performance additive package. The lubricants are specifically formulated to give negligible solubility or dilution in hydrocarbon gases.

These compressor lubricants feature excellent thermal and oxidation stability enabling them to operate over a wide range of temperatures without degradation, varnish, deposit formation, or corrosion, particularly if oxygen is present in the hydrocarbon process gas stream. The high viscosity index (VI) enables them to operate over this wide temperature range with a change in viscosity much reduced than other formulated lubricants.

The **CPI®-1507** Series are specifically advantageous in high temperature applications, particularly as the low volatility means that there is significantly reduced lubricant in the air stream and any degradation at high thermal temperatures will not result in any detrimental varnishes or deposits.

Applications and Compressor Type

- Flooded rotary screw compressors
- Centrifugal compressors
- Liquid ring vacuum pumps

Features and Benefits

Hydrocarbon insoluble	Insignificant dilution in operation
Oxidatively stable	Longer system life
Extremely low volatility	Reduced maintenance, reduced top-up
High viscosity index	Wide temperature range of operation
Excellent lubricity	Increased efficiency, reduced cost of operation

Test Procedure	ASTM Test Method	CPI®-1507-68	CPI®-1507-100
ISO VG		68	100
Density, g/mL	D4052		
20.0°C		1.135	1.143
Flash and Fire Point,	D92		
Flash Point °C		231	260
Fire Point °C		241	285
Kinematic Viscosity, cSt	D445		
40°C		68.1	90.1
100°C		10.8	12.1
Viscosity Index	D2270	168	126
Pour Point, °C	D97	-48	-37
Foaming Tendency, mL	D892		
Sequence I		30/0	30/0
Sequence II		20/0	30/0
Sequence III		70/0	70/0
Copper Strip Corrosion	D130		
100 °C for 3 hours		1B	1B
Rust Test	D665		
A - Distilled Water		Pass	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®-1507 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.