

# CPI®-1005 Series

## Hydrocarbon Process Gas Compressor Lubricants



### Description

The **CPI®-1005** Series compressor lubricants are formulated using highly hydrocracked and isodewaxed mineral oil, coupled with an additive package that is specifically designed to give superior performance within compressor systems.

These compressor lubricants feature excellent corrosion protection and extremely low pour point, which combined with the enhanced lubricity performance enable them to be used within systems over wide operational temperature ranges with unparalleled performance.

The **CPI®-1005** Series lubricants are specifically advantageous in compressors operating with harsh chemical environments due to their inertness and cleanliness of operation.

### Applications and Compressor Type

- Flooded rotary screw compressors
- Harsh chemical environments

### Features and Benefits

|  |  |
|--|--|
| <b>Low pour point</b>                        | Suitable for use in reduced temperature environments |
| <b>Low volatility</b>                        | Reduced maintenance, reduced top-up                  |
| <b>Excellent lubricity</b>                   | Increased efficiency, reduced cost of operation      |
| <b>Corrosion protection (H<sub>2</sub>S)</b> | Resistance against H <sub>2</sub> S corrosion        |

| Test Procedure                    | ASTM Test Method | CPI®-1005-100 | CPI®-1005-150 |
|-----------------------------------|------------------|---------------|---------------|
| <b>ISO VG</b>                     |                  | 100           | 150           |
| <b>Density, g/mL</b>              | <b>D4052</b>     |               |               |
| 20.0°C                            |                  | 0.870         | 0.867         |
| <b>Water Content, ppm</b>         | <b>D6304</b>     | 43            | 16            |
| <b>Total Acid Number, mgKOH/g</b> | <b>D974</b>      | 0.04          | 0.06          |
| <b>Flash and Fire Point,</b>      | <b>D92</b>       |               |               |
| Flash Point °C                    |                  | 243           | 263           |
| Fire Point °C                     |                  | 268           | 277           |
| <b>Kinematic Viscosity, cSt</b>   | <b>D445</b>      |               |               |
| 40°C                              |                  | 110.3         | 154.0         |
| 100°C                             |                  | 11.7          | 17.3          |
| <b>Viscosity Index</b>            | <b>D2270</b>     | 116           | 121           |
| <b>Pour Point, °C</b>             | <b>D97</b>       | -37           | -30           |
| <b>Foaming Tendency, mL</b>       | <b>D892</b>      |               |               |
| Sequence I                        |                  | 0/0           | 0/0           |
| Sequence II                       |                  | 120/0         | 150/0         |
| Sequence III                      |                  | 0/0           | 0/0           |
| <b>Noack Volatility</b>           | <b>D972</b>      |               |               |
| % Loss                            |                  | 1.9           | 2.0           |
| <b>Copper Strip Corrosion</b>     | <b>D130</b>      |               |               |
| 100 °C for 3 hours                |                  | n/a           | n/a           |
| <b>Rust Test</b>                  | <b>D665</b>      |               |               |
| A - Distilled 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®-1005 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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