

## Description

The **CPI®-FMO** (Food Machinery Oil) Series lubricants are formulated to be NSF H1 certified. Formulated with premium technical white mineral oil and a robust antiwear additive package, **CPI®-FMO** is optimized for use in circulating oil systems such as a hydraulic system.

Features of the **CPI®-FMO** lubricants include excellent antiwear, demulsibility and foam characteristics in addition to rust and oxidation inhibition, which give **CPI®-FMO** lubricants improved performance over conventional mineral oils.

The **CPI®-FMO** Series lubricants are non-toxic and suitable for use in food processing facilities where NSF H1 certified products are required. **CPI®-FMO** is available in ISO 15 – ISO 1000.

## Applications and Compressor Type

- Piston, vane, and gear hydraulic pumps
- Compressor lubricant/coolant
- Integrally gear driven compressors
- Bull gear applications
- Lubricant and sealing fluid for rotary mechanical shaft seals of processing pumps and agitated kettles
- Other applications requiring an incidental food contact lubricant

## Features and Benefits

<b>Excellent demulsibility</b>	Optimum water separation at different temperatures
<b>Oxidatively stable</b>	Longer system life
<b>Low volatility</b>	Reduced maintenance, reduced top-off
<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

## Typical Properties\*

Test Procedure	ASTM Test Method	CPI®-FMO-32	CPI®-FMO-46	CPI®-FMO-68	CPI®-FMO-100
<b>Kinematic Viscosity, cSt</b>	<b>D445</b>				
40°C		30.94	45.63	65.44	98.28
100°C		5.50	6.89	8.82	11.32
<b>Viscosity Index</b>	<b>D2270</b>	115	107	108	101
<b>Density, g/mL</b>	<b>D4052</b>				
20.0°C		0.8524	0.8591	0.8648	0.8687
<b>Pour Point, °C</b>	<b>D97</b>	-24	-18	-15	-15
<b>Flash and Fire Point, °C</b>	<b>D92</b>				
Flash Point		210	232	246	286
Fire Point		248	264	282	314
<b>Foaming Tendency, mL</b>	<b>D892</b>				
Sequence I		20/0	0/0	10/0	10/0
Sequence II		20/0	10/0	20/0	50/0
Sequence III		10/0	0/0	10/0	0/0
<b>Demulsibility</b>	<b>D1401</b>				
Water-Oil-Emulsion (Time, min.)		40-40-0 (5)	39-39-2 (5)	38-39-3 (20)	37-38-5 (60)
<b>Rust Test</b>	<b>D665</b>				
A – Distilled Water		Pass	Pass	Pass	Pass
<b>Copper Strip Corrosion</b>	<b>D130</b>				
100°C for 3 hours		1B	1B	1B	1B
<b>RPVOT, min.</b>	<b>D2272</b>	-	1501	1281	1174

\*These values are not intended for use in preparing specifications