

# Pale Oil

## Refrigeration Fluids



### Description

**Pale Oil** refrigeration fluids are designed for use as a cost effective fluid in General refrigeration applications.

The fluid is refined from carefully chosen wax free naphthenic crude oil basestocks to ensure the optimum quality product.

### Applications and Compressor Type

- Ammonia compressors
- Process gas rotary screw
- Process gas reciprocating compressors



### Features and Benefits

**Oxidatively stable**

Longer system life

**Low carry-over**

Improve evaporator efficiency

**Corrosion protection**

Enhanced system reliability and reduced down-time

**Low pour point**

Easier removal of the oil

**Low volatility**

Reduced maintenance, reduced top-up

## Physical properties

Test Procedure*	Method	32	46	68	100
<b>ISO VG</b>					
<b>Viscosity @ 40°C (cSt.)</b>	ASTM D445	30.7	42.4	60.7	92.4
<b>Viscosity @ 100°C (cSt.)</b>	ASTM D445	4.6	5.7	7.0	8.7
<b>Viscosity Index</b>	ASTM D2270	32	59	59	49
<b>Density @ 15°C (g/ml)</b>	ASTM D4052	0.8904	0.8988	0.9024	0.9096
<b>Pour Point (°C)</b>	ASTM D97	-45.6	-42.8	-30	-24.4
<b>Flash Point C.O.C., (°C)</b>	ASTM D92	165.6	168.3	173.9	204.4
<b>Fire Point C.O.C., (°C)</b>	ASTM D92	173.9	176.7	182.2	215.6
<b>Specific Gravity</b>	ASTM D4052	0.89	0.897	0.905	0.910
<b>Floc Point (°C)</b>	FTM 1303.2	-45.5	-42.7	37.2	-34.4
<b>Water Content (ppm)</b>	ASTM D6304	45	47	45	45
<b>Total Acid Number, mg KOH/g</b>	ASTM D974	0.05	0.05	0.05	0.05
<b>Aniline Point (°C)</b>	ASTM D611	85	90.5	93.3	96.1
<b>Dielectric Strength, (kV)</b>	ASTM D877	29.1	35.5	41.9	41.8
<b>Sealed Glass Tube Test</b>	ANSI/ASHRAE 97				
<b>R-12 Purity</b>		98.9	98.9	98.9	98.9
<b>R-22 Formation</b>		1.1	1.1	1.1	1.1
<b>Copper Strip Test</b>	ASTM D130	1a	1a	1a	1a
<b>Colour</b>	ASTM D1500	1	1	1	1

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

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 Solest® lubricants, CPI offers lubricants for any refrigeration application including domestic and automotive air conditioning, commercial and industrial refrigeration and low Global Warming Potential (GWP) refrigerants such as Carbon Dioxide, 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, Landfill Gas, Field Gas, Chemical Process and many NSF H1 & H2 Food Grade applications. CPI is ISO9001 and ISO14001 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.