

# PAO Based Synthetic Compressor Oil (PC3)



## Product Description

Podlee PC3 range oil is a high-performance synthetic lubricant specifically engineered for demanding compressor applications. Its formulation leverages the superior properties of PAO synthetic base oils combined with advanced additive technology, offering exceptional thermal stability, oxidation resistance, and longevity in harsh operating conditions.

## Application

**Rotary screw compressors:** High-speed industrial systems requiring thermal stability.

**Reciprocating compressors:** Heavy-duty applications with high discharge temperatures.

**Refrigeration compressors:** Low-temperature operations demanding consistent viscosity.

**Oxygen and gas compressors:** Non-reactive properties ensure safety in specialized systems.

## Advantages

**Extended Drain Intervals:** 2–3x longer service life compared to mineral oils, even at temperatures exceeding 100 °C.

**Energy Efficiency:** Low traction coefficients reduce friction losses, improving compressor efficiency by 3–8%.

**Clean Operation:** Minimal carbon deposits or sludge formation, protecting critical components (valves, rotors).

**Broad Compatibility:** Works with common elastomers (NBR, FKM) and coatings, minimizing leakage risks.

**Environmental Resilience:** Performs reliably in humid, high-temperature, or variable-load environments.

## Typical Characteristics

Item	Test Data					Standard
	32	46	68	100	150	
Viscosity (mm <sup>2</sup> /s@104 F/40 °C)	32	46	68	100	150	ASTM D445
Viscosity Index	135	135	135	140	140	ASTM D2270
Flash Point – Open Cup Method, (°F/°C)	473/245	500/260	500/260	536/280	536/280	ASTM D92
Pour Point (°F/°C)	-58/-50	-58/-50	-49/-45	-40/-40	-31/-35	ASTM D97
Copper Corrosion	1a	1a	1a	1a	1a	ASTM D130
Rust Preventing Characteristics (A)	Pass	Pass	Pass	Pass	Pass	ASTM D665

## Package

18 L/Barrel

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