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DATA BULLETIN

Synthetic PC Series Compressor Oil

ISO VG 32 to 100



AMSOIL PC Series Synthetic Compressor Oil is a long-life, premium compressor lubricant based on novel, proprietary technology. It incorporates the highest quality, thermally stable PAO synthetics fortified with premium non-detergent additives for maximum protection at high temperatures. It lasts up to 8,000 hours, effectively reducing maintenance and waste oil disposal costs.

Formulated to Improve Efficiency

AMSOIL PC Series Oil has low-friction properties, resists viscosity increase from oxidation and helps improve operating efficiency.

Controls Foam and Reduces Wear

AMSOIL PC Series Oil contains anti-foam additives and, unlike some other compressor oils, is anti-wear fortified. Good foam control reduces heat, oxidation and wear. High contact regions are protected against wear for increased compressor life and lower maintenance costs.

Resists Water Contamination

Water from condensation builds up in compressors and can cause unwanted oil/water emulsions that lead to rust and corrosion. AMSOIL PC Series Oil is hydrolytically stable. It resists acid formation, readily separates from water and is anti-rust fortified. Water can be easily drained for simplified disposal and increased oil life.

Resists Heat and Oxidation

AMSOIL PC Series Oil combines the inherent stability of premium synthetic base oils with specialized anti-oxidant additives to resist varnish, carbon and acid formation. It is formulated to protect compressors better and last longer in service than petroleum oils, especially during hot operating conditions.

Safety Advantage

AMSOIL PC Series Oil is an ashless, high-flash-point formulation with very low carbon-forming tendencies that minimizes the incidence of ignition-promoting “hot spots.” While PC Series Oil can provide improved fire safety, it cannot be considered non-flammable.

APPLICATIONS*

Use the appropriate viscosity of AMSOIL PC Series Oil in single and multistage rotary screw, vane, centrifugal and reciprocating compressor crankcases and cylinders, vacuum pumps, pressure washer pumps and other applications such as gears, bearings, blowers and pumps. In compressor applications, drain intervals of 8,000 hours or more can be expected under normal operation. Drain intervals are subject to operating conditions and maintenance practices. Monitoring by oil analysis is recommended. For best performance when converting to AMSOIL PC Series Oil, it is recommended the compressor be flushed of the old oil and all filters changed prior to the installation of PC Series Oil. If carbon deposits are present on the internal components, it is recommended they be removed following the compressor manufacturer recommendations.

** Consult the equipment manufacturer or AMSOIL Technical Services for use in specific applications.*

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Order by Phone 1-800-956-5695 - Give Operator Reference #5983322

TYPICAL TECHNICAL PROPERTIES

Synthetic PC Series Compressor Oil

	SAE 10W (PCH)	SAE 20 (PCI)	SAE 30 (PCJ)	SAE 40 (PCK)
ISO VG (ASTM D2422)	32	46	68	100
Kinematic Viscosity @100°C (ASTM D445)	6.1	7.3	10.5	13.4
Kinematic Viscosity @ 40°C (ASTM D445)	32.8	43.0	68.1	100.2
Viscosity Index (ASTM D2270)	135	132	145	133
Specific Gravity (ASTM D1298)	0.8393	0.8428	0.8524	0.8550
Density (ASTM D1298)	6.989	7.018	7.098	7.119
Flash Point °C (°F) (ASTM D92)	260 (500)	252 (486)	250 (482)	262 (504)
Fire Point °C (°F) (ASTM D92)	274 (525)	276 (529)	276 (529)	274 (525)
Pour Point °C (°F) (ASTM D97)	-53 (-63)	-47 (-53)	-40 (-40)	-44 (-47)
Four-Ball Wear Test (ASTM D4172)				
(40 kg, 1200 rpm, 75°C, 1 hr.)	0.45	0.45	0.45	0.45
Copper Strip Corrosion Test (ASTM D130)	1A	1A	1A	1A
Rust Tests (ASTM D665 A & B)				
Fresh and synthetic sea water	Pass	Pass	Pass	Pass
Foam (ASTM D892, Sequence I, II, & III)	0/0/0	0/0/0	0/0/0	0/0/0
Demulsibility (ASTM D1401)				
[oil/water/cuff (minutes)]	40/40/0 (10)	40/40/0 (10)	40/40/0 (5)	40/40/0 (10)

COMPATIBILITY

AMSOIL PC Series Synthetic Compressor Oil is compatible with petroleum oils and most synthetic oils, seals, paints and materials, including the following:

Gases • Nitrogen • Hydrogen • Helium • Carbon Monoxide • Carbon Dioxide (dry) • Ethylene • Methane • Propane • Butane • Propylene • Butylenes • Natural Gas • Benzene • Butadiene • Furnace (crack gas) • Hydrogen Sulfide (dry) • Synthetic Gas • Sulfur Dioxide

Paints: • Epoxy • Oil-Resistant Alkyd • Acrylic Enamel

Plastics: • Acetal (Delrin*) • ABS • Phenolic • Polyamide-imide • Polyamide (Nylon*) • Polycarbonate (metal-covered only) • Polyester • Polyetherimide (Nylon) • Polyimide • Polyphenylene oxide • Polystyrene • Polysulfone • PTFE (Teflon*) • Terephthalate

Elastomers: • Fluoroelastomer (Viton*) • Nitrile (Buna N) • Polyacrylate • TFE/P • Poly Urethane

Note: Not recommended for "breathing air" or refrigeration compressors. Not recommended for use with polycarbonate plastic that is not metal covered, PVC plastic and butyl, ethylene-propylene or SBR rubber. PC Series Oil is not compatible with polyalkylene glycol or silicone oils.

HEALTH & SAFETY

This product is not expected to cause health concerns when used for the intended application and according to the recommendations in the Safety Data Sheet (SDS). An SDS is available via the Internet at www.amsoil.com or upon request at (715) 392-7101. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.

AMSOIL PRODUCT WARRANTY

AMSOIL products are backed by a Limited Liability Warranty. For complete information visit www.amsoil.com/warranty.aspx.

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