AMSOIL

The First in Synthetics®

Synthetic PC Series Compressor Oils

ISO 32 To 150

PRODUCT DESCRIPTION

AMSOIL PC Series Synthetic Compressor Oils are long-life, premium compressor lubricants based on novel, proprietary technology. They incorporate the highest quality, thermally-stable PAO synthetics fortified with premium non-detergent, ashless additives for maximum protection at high temperatures and pressures. They last up to eight times longer than petroleum oils, effectively reducing maintenance and waste oil disposal costs.

Improves Compressor Efficiency

AMSOIL PC Synthetic Compressor Oils have low friction properties and they resist viscosity increase from oxidation. They help improve operating efficiency and save money on electrical energy consumption.

Controls Foam and Reduces Wear

AMSOIL PC Compressor Oils contain anti-foam additives and, unlike other compressor oils, they are anti-wear fortified. Good foam control reduces heat, oxidation and wear. High contact regions are protected against wear for increased compressor life and efficiency.

Resists Water Contamination

Water from condensation builds up in compressors that can cause unwanted oil/water emulsions, environmental discharge hazards and rust. AMSOIL PC Synthetic Compressor Oils are hydrolytically stable. They resist acid formation, readily separate from water and are anti-rust fortified. Water can be easily drained off for simplified environmental discharge and increased oil life.

Resists Heat and Oxidation

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

Safety Advantage

AMSOIL PC Series Synthetic Compressor Oils are ashless, high flash point formulations with very low carbon-forming tendencies that minimize the incidence of ignition-promoting “hot spots.” While PC Synthetic Compressor Oils can provide improved fire safety, they cannot be considered non-flammable.

APPLICATION RECOMMENDATION

The appropriate viscosity of AMSOIL PC Series Synthetic Compressor Oil is recommended for use in single and multistage rotary screw, vane, centrifugal and reciprocating compressor crankcase and cylinders, vacuum pumps and other applications such as gears, bearings, blowers, pumps and handheld pneumatic tools. 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 Compressor Oils, it is recommended the compressor be drained of the old fluid prior to the installation of PC Synthetic Compressor Oil. If carbon deposits are present on the internal components, it is recommended they be removed following the compressor manufacturer recommendations.

TYPICAL TECHNICAL PROPERTIES

Synthetic PC Series Compressor Oils

	PCH SAE 10W	PCI SAE 20	PCJ SAE 30	PCK SAE 40	PCL SAE 50
ISO VG — ASTM D-2422	32	46	68	100	150
VK 100°C — ASTM D-445	6.2	7.6	10.3	13.6	17.9
VK 40°C — ASTM D-445	33.1	43.7	67.8	100.5	148.4
Viscosity Index — ASTM D-2270	137	142	138	136	134
Specific Gravity — ASTM D-1298	0.8393	0.8418	0.8565	0.8550	0.8602
Density — ASTM D-1298	7.989	7.009	7.081	7.119	7.163
Flash Point °C (°F) — ASTM D-92	264 (507)	257 (495)	258 (496)	264 (507)	254 (489)
Fire Point °C (°F) — ASTM D-92	278 (532)	272 (522)	274 (525)	276 (529)	274 (525)
Pour Point °C (°F) — ASTM D-97	-53 (-63)	-50 (-58)	-48 (-54)	-45 (-49)	-42 (-44)
Four-Ball Wear Test — ASTM D-4172					
(40 kg, 1200 rpm, 75°C, 60 min.)	0.45	0.45	0.45	0.45	0.45
Copper Strip Corrosion Test — ASTM D-130	1A	1A	1A	1A	1A
Rust Tests — ASTM D-665 A & B					
Fresh and synthetic sea water	Pass	Pass	Pass	Pass	Pass
Foam, ml — ASTM D-892. Seq I, II, III at end of test	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Demulsibility — ASTM D-1401					
[oil/water/cuff (minutes)]	40/40/0 (5)	40/40/0 (5)	40/40/0 (5)	40/40/0 (5)	40/40/0 (5)

Compatibility

AMSOIL PC Compressor Oils are 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 Oils are **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 Material Safety Data Sheet (MSDS). An MSDS is available upon request at 715-392-7101 or via the Internet at www.AMSOIL.com. **Keep Out of Reach of Children.** Don't pollute. Return used oil to collection centers.

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.