



*The First in Synthetics®*

## Compressor Oil Compatibility Guide for Process Gas and Materials

### Purpose

The information presented in this bulletin is intended only as a general guide and lists common materials and their levels of compatibility with AMSOIL compressor oils/coolants. Changes in the manufacture, environment and application may cause unpredictable effects in a material's compatibility. Process gases compatibility is listed on the reverse side.

### Compatibility Level Definitions

**Compatible:** There is generally no negative effect on the lubrication performance or the material in question.

**Marginal:** The effect on the materials/lubricant is dependent on their use and composition, which can vary. An evaluation of the specific material and the specific operating conditions should be done prior to use.

**Not recommended:** Materials/lubricant which have been found to be adversely affected under most circumstances and should not be considered for use where excessive contact with the subject lubricant and material is involved.

### AMSOIL PC Series Compressor Oils

**Compatible:** Petroleum oils, most synthetic oils, most seals, paints and plastics used in compressors.

**Not recommended:** As a replacement for systems using polyglycol-based compressor oils such as Sullair Sullube 32<sup>®</sup>, Ingersoll-Rand SSR Ultra-coolant<sup>®</sup> or for silicon-based oils such as Sullair Sullube 24 KT<sup>®</sup>.

PC Series compressor oils are also not recommended for use with PVC air lines and polycarbonate bowls (unless the bowls are metal-caged).

### AMSOIL SIROCCO<sup>®</sup> Synthetic Ester Compressor Oil

**Compatible:** Petroleum oils, most synthetic oils, as well as seals, paints and plastics as detailed on the following compatibility chart. Compatible with and recommended as a replacement for polyglycol-type compressor oils such as Sullair Sullube 32<sup>®</sup> and Ingersoll-Rand SSR Ultra-coolant<sup>®</sup>.

**Not recommended:** For use with silicon compressor oils such as Sullair Sullube 24 KT<sup>®</sup> or for use with PVC air lines and polycarbonate bowls (unless the bowls are metal-caged).

\* Sullair Sullube 32<sup>®</sup> and Sullair Sullube 24 KT<sup>®</sup> are registered trademarks of Sullair Corporation; Ingersoll-Rand SSR Ultra-coolant<sup>®</sup> is a registered trademark of Ingersoll-Rand Company. SIROCCO<sup>®</sup> is a registered trademark of AMSOIL INC. The product code for SIROCCO<sup>®</sup> is SEI.

# AMSOIL Compressor Oil Compatibility Chart

Compatible	Marginal	Not Recommended
<p><b>Paints</b></p> <p>Epoxy Baked phenolic Oil-resistant alkyd Two-component urethane Moisture-cured urethane</p>	<p><b>Paints</b></p> <p>Phenolic Single-component urethane Industrial latex</p>	<p><b>Paints</b></p> <p>Acrylic Latex (household) Vinyl (PVC) Varnish Lacquer Polyurethane</p>
<p><b>Plastics</b></p> <p>Nylon Fluorocarbon (Teflon®) Polyacetal (Delrin®, Celcon®) Polybutylene terephthalate (PBT) Polypropylene (high density)</p>	<p><b>Plastics</b></p> <p>Polyurethane Polyethylene Phenylene oxide (Noryl) Polycarbonate (Lexan) Polysulfone</p>	<p><b>Plastics</b></p> <p>Polystyrene Polyvinyl chloride ABS (acrylonitrile/butadiene/styrene) Polycarbonate (bowls)</p>
<p><b>Rubbers/Seals</b></p> <p>Fluorocarbon (Viton®) Nitrile rubber (Buna-N, NBR)* Fluorosilicone rubber Polysulfide (Thiokol) Polyester (Hytrel)</p> <p>*High nitrile (&gt;36% acrylonitrile)</p>	<p><b>Rubbers/Seals</b></p> <p>Nitrile (Buna-N, NBR)* Polyurethane Ethylene-propylene teropolymer (EPDM) Epichlorohydrin Polyacrylate rubber Silicone rubber</p> <p>*Medium nitrile (30-36% acrylonitrile)</p>	<p><b>Rubbers/Seals</b></p> <p>Polychloroprene (Neoprene) Natural rubber Styrene-butadiene rubber (SBR, Buna-S) Butyl rubber Chlorosulfonated polyethylene Nitrile rubber (Buna-N, NBR)*</p> <p>*Low nitrile (&lt;30% acrylonitrile)</p>
<p><b>Metals</b></p> <p>Steel and alloys Aluminum and alloys Copper and alloys Tin Nickel Inconel, Monel</p>	<p><b>Metals</b></p> <p>Cadmium Zinc Lead</p>	<p><b>Metals</b></p>

## Process Gases Suitable for Use with SIROCCO®, DC Series and PC Series Oils

### Inert or Reducing Gases

Nitrogen, hydrogen, helium, carbon monoxide, carbon dioxide (dry).

### Hydrocarbon Gases

Ethylene, ethane, methane, propane, butane, propylene, butylene, natural gas, benzene, butadiene.

### Other Gases

Furnace (crack gas), hydrogen sulfide (dry), synthetic gas, sulfur dioxide.

## Process Gases Not Recommended

Oxygen, halogen gases, hydrogen chloride, ammonia.

For further information on other gases, contact the AMSOIL Industrial Lubricants Department.



Jari Marjanen - Certified Dealer #1702935 <http://www.JMAlaska.com> 1-907-982-7115