



*The First in Synthetics*®

## DC Series Synthetic Ester Compressor Oils

**ISO 100 & 150**



### **PRODUCT DESCRIPTION**

AMSOIL DC Synthetic Compressor Oils are long-life, premium compressor lubricants based on novel, proprietary technology. They improve compressor efficiency and extend drain intervals in reciprocating (piston) compressors and vacuum pumps where high discharge temperatures or carbon build-up are a concern.

AMSOIL DC Synthetic Compressor Oils incorporate the highest quality, thermally-stable synthetic esters fortified with premium non-detergent, ashless additives for maximum protection at high temperatures and pressures where petroleum lubricants typically break down.

### **Improve Compressor Efficiency**

AMSOIL DC Synthetic Compressor Oils are designed to prevent hard carbon deposits on valves for greatly improved compressor efficiency. Valve maintenance intervals are extended and recompression is virtually eliminated. AMSOIL Compressor Oils help reduce heat and improve compressor efficiency, saving money through lower electrical energy consumption.

### **Reduce Wear**

Unlike other compressor oils, AMSOIL DC Synthetic Compressor Oils are anti-wear fortified. They help reduce wear in high contact regions for increased compressor life and efficiency.

### **Extend Oil Life**

AMSOIL DC Series Compressor Oils combine the inherent oxidation resistance of synthetic esters with highly potent oxidation inhibitors. They last several times longer than petroleum oils, effectively reducing maintenance and waste-oil disposal costs.

### **Reduce Oil Consumption**

The low volatility, highly polar nature of AMSOIL DC Synthetic Compressor Oils reduces the amount of oil needed for cylinder lubrication compared to petroleum oils. Drip feed rates can be lowered, downstream oil is minimized and money is saved on make-up oil.

### **Resist Water Contamination**

Water from condensation builds up in compressors that can cause oil/water emulsions, environmental discharge hazards and rust. AMSOIL DC Synthetic Compressor Oils readily separate from water, and they are anti-rust fortified. Water can be easily drained off for simplified environmental discharge and increased oil life.

### **Safety Advantage**

AMSOIL DC 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 DC Synthetic Compressor Oils can provide improved fire safety, they cannot be considered non-flammable.



## TYPICAL TECHNICAL PROPERTIES

### Synthetic DC Series Compressor Oils

	DCK	DCL
ISO VG — ASTM D-2422	100	150
VK 100°C — ASTM D-445	11.3	13.7
VK 40°C — ASTM D-445	99.1	148.5
Viscosity Index — ASTM D-2270	100	86
Density — ASTM D-1298	7.747	7.851
Flash Point °C (°F) — ASTM D-92	250 (482)	258 (496)
Fire Point °C (°F) — ASTM D-92	282 (540)	282 (540)
Pour Point °C (°F) — ASTM D-97	-40 (-40)	-31 (-24)
Four-Ball Wear Test — ASTM D-4172 (40 kg, 1200 rpm, 75°C, 60 min.)	0.45	0.45
Copper Strip Corrosion Test — ASTM D-130	1A	1A
Foam, ml — ASTM D-892. Seq I, II, III at end of test	0/0/0	0/0/0
Demulsibility — ASTM D-1401 [oil/water/cuff (minutes)]	40/40/0 (15)	40/40/0 (15)
Rust Procedure A — ASTM D-665	Pass	Pass

## APPLICATIONS

AMSOIL recommends the use of the appropriate viscosity of AMSOIL DC Synthetic Compressor Oil in rotary vane and reciprocating compressors and vacuum pumps. Drain intervals of 8,000 hours or more can be expected under normal operation. This is subject to operating conditions and maintenance practices. Monitoring by oil analysis is recommended.

## COMPATIBILITY

DC Synthetic Compressor Oils are compatible with petroleum and most other synthetic-based lubricants (not compatible with polyalkylene glycol or silicone oils). For best performance, AMSOIL recommends the compressor be thoroughly drained and cleaned if needed prior to the installation of DC Synthetic Compressor Oils. If carbon deposits are present on the internal components, it is recommended they be removed following the manufacturer recommendations. For the first 500 hours of operation, check the filters regularly and clean or replace as necessary.

AMSOIL DC Synthetic Compressor Oils can be used with the following gases, paints, plastics and elastomers:

**Gases:**

- Nitrogen • Hydrogen • Helium • 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.

**Plastics:**

- Acetal (Delrin) (Celcon) • Phenolic
- Polyamide-imide • Polyamide (nylon)
- Polyetherimide (Nylon) • Polyimide
- Tetrafluoroethylene (PTFE) • Terephthalate.

**Elastomers:**

- Fluoroelastomer (Viton) • Nitrile (> 36% Buena N)
- Polyacrylate (HyTemp) • TFE Propylene (Aflas)
- Florosilicone (Silastic).

**Note: Not recommended** for “breathing air,” refrigeration compressors or for use with Chlorine, Oxygen, Hydrogen chloride, Ammonia or Sulfur hexafluoride gases.

## 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 online at [www.amsoil.com](http://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.

For AMSOIL warranty information visit [www.amsoil.com](http://www.amsoil.com).

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

