



## DC Series Synthetic Ester Compressor Oil

### ISO 100 & 150

AMSOIL DC Series Synthetic Compressor Oil is a long-life, premium compressor lubricant based on novel, proprietary technology. It improves compressor efficiency and extends drain intervals in reciprocating (piston) compressors and vacuum pumps where high discharge temperatures or carbon build-up are a concern.

AMSOIL DC Series Oil incorporates 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.

#### Improves Compressor Efficiency

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

#### Reduces Wear

Unlike other compressor oils, AMSOIL DC Series Oil is anti-wear fortified. It helps reduce wear in high contact regions for increased compressor life and efficiency.

#### Extends Oil Life

AMSOIL DC Series Oil combines the inherent oxidation resistance of synthetic esters with highly potent oxidation inhibitors. It lasts several times longer than petroleum oils, effectively reducing maintenance and waste-oil disposal costs.

#### Reduces Oil Consumption

The low volatility, highly polar nature of AMSOIL DC Series Oil 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.

#### Resists Water Contamination

Water from condensation builds up in compressors that can cause oil/water emulsions, environmental discharge hazards and rust. AMSOIL DC Series Oil readily separates from water, and it is anti-rust fortified. Water can be easily drained off for simplified environmental discharge and increased oil life.

#### Safety Advantage

AMSOIL DC Series Oil features an ashless, high-flash-point formulation with a very low carbon-forming tendency that minimizes the incidence of ignition-promoting "hot spots." While AMSOIL DC Series Oil can provide improved fire safety, it cannot be considered non-flammable.



## Typical Technical Properties – DC Series Synthetic Compressor Oil

	DCK	DCL
ISO Viscosity Grade (ASTM D-2422) . . . . .	100	150
Kinematic Viscosity @ 100°C, cSt (ASTM D-445) . . . . .	11.3	13.7
Kinematic Viscosity @ 40°C, cSt (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, 75°C, 1200 rpm, 1 hr.) Scar, mm. . . . .	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 AMSOIL DC Series 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

AMSOIL DC Series Oil is 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 Series Oil. 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 Series Synthetic Compressor Oil can be used with the following paints, plastics and elastomers:

**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).



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