

# TECH DATA

## COMPRO™ E

### COMPRESSOR FLUID

## INTRODUCTION

Petro-Canada Lubricants COMPRO E compressor fluids are fully synthetic, high performance ester based lubricants formulated to provide superior protection in rotary screw, rotary vane, centrifugal, and reciprocating air compressors\*.

### FEATURES AND BENEFITS

#### Optimized compressor operation

- Prevents varnish and sludge formation
- Ashless formulation to minimize deposits
- Excellent resistance to formation of deposits
- Excellent wear protection to help sustain compressor efficiency and life
- Ideal for solubilizing oxidative by-products from oxidation or varnish.

#### Maximized oil life and drain intervals

- Excellent thermal and oxidative stability
- Prevents carbon deposits formation on reciprocating exhaust valves
- Longer bearing and cylinder life
- Low volatility
- Minimized oil carry-over
- Excellent water separation
- Excellent wear protection
- Protects against rust and corrosion

#### High viscosity index and low pour point

- Suitable for wide operating temperature ranges
- High fluid film at high temperatures
- Excellent low temperature fluidity

### APPLICATIONS

COMPRO E compressor fluids are ester based fluids that are compatible with polyalkylene glycol fluids as well as mineral oil products.

COMPRO E compressor fluids are recommended for single and multistage air compressors, such as rotary vane compressors, rotary screw compressors, reciprocating compressors, and centrifugal compressors.

Please note that not all viscosity grades are suitable for all compressor types; please follow compressor OEM recommendations and follow the operation manual of the specific brand and model of compressor.

COMPRO E compressor fluids can be used as a short term flushing fluid for specific gas compressor applications, including oil flooded screw compressors and reciprocating gas compressors. Depending on the compressor type, a specific grade of COMPRO E compressor fluid should be used.

COMPRO E compressor fluids are compatible with standard rubbers/elastomers used in most compressor components:

- Recommended to use with Teflon, Viton, High Nitrile Rubber-Buna N (>36% nitrile content)
- Fair compatibility with Nitrile Rubber-Buna N (30%-36% nitrile content), Silicone Rubber, Ethylene-Propylene Terpolymer, Polyacrylate Rubber, and Epichlorohydrin
- Not recommended to use with Natural Rubber, Neoprene, Nitrile Rubber, Butyl Rubber, and Polystyrene (PS)

\* Not all viscosity grades are suitable for all compressor types, please follow compressor OEM recommendations.

COMPRO E compressor fluids are compatible with the following standard paints and coating used in most compressor components:

- Recommended to use with Epoxy, Baked Phenolic, Oil Resistant Alkyd, Cured (moisture) Urethane
- Fair compatibility with Industrial Latex
- Not recommended to use with Acrylic, Vinyl (PVC), Lacquer, Varnish, Latex (household type)

**NOTE: COMPRO E compressor fluids should not be used in systems compressing wet or sour hydrocarbon gases. For these applications, Petro-Canada Lubricants line of natural gas compressor fluids are recommended.**

**NOTE: COMPRO E compressor fluids must not be used in the compression of oxygen, or other chemically active gases such as chlorine or hydrogen chloride.**

**NOTE: DO NOT USE in breathing air apparatus or medical equipment.**

**OPERATIONAL CONSIDERATIONS**

In order to realize full benefits of COMPRO E compressor fluids, it is advised to drain and flush the equipment system to minimize contamination with previous used oil prior to changing over to COMPRO E compressor fluids. Please note that certain makes of compressors do not permit complete draining. If the drained oil is heavily oxidized, recharging with COMPRO E compressor fluids may not result in optimum performance and fluid service life.

For complete instructions on cleaning varnished compressors, or flushing and recharging the compressor with COMPRO E compressor fluids, please consult with a Petro-Canada Lubricants Technical Services Advisor.

TYPICAL PERFORMANCE DATA					
Property	ASTM Test Method	COMPRO E			
		46	68	100	150
Viscosity, cSt at 40°C	D445	46	72	102	154
cSt at 100°C		8	10	13	18
Viscosity Index	D2270	138	138	121	128
Flash Point, COC, °C / °F	D92	249 / 480	247 / 477	243 / 469	245 / 473
Pour Point, °C / °F	D5950	-57 / -71	-54 / -60	-51 / -60	-48 / -54
Corrosion Protection: Copper Corrosion, 3h @ 100°C	D130 D665	1B	1A	1A	1B
Rust A – Distilled Water		Pass	Pass	Pass	Pass
Foam Sequence I, ml/ml	D892	5/0	5/0	5/0	20/0
Wear Protection: Four-Ball Wear, scar diam. (mm)	D4172	0.40	0.35	0.37	0.39
NOACK, % Mass, (250°C, 1hr)	D5800B	4.9	5.5	5.6	6.0

The values quoted above are typical of normal production. They do not constitute a specification.

Learn more about us: [petrocanadalubricants.com](https://petrocanadalubricants.com)  
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Committed to the disciplined operation of our business.



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