



LUBRICANTS

AN HF SINCLAIR BRAND

# TECH DATA COMPRO™ COMPRESSOR FLUID

## INTRODUCTION

Petro-Canada Lubricants COMPRO compressor fluids are ashless, premium quality lubricants designed to provide long and highly reliable service life in industrial air compressor applications. COMPRO is formulated with ultra-pure, high quality base oils and specially selected additives to provide strong protection against oxidative breakdown, wear and corrosion. With stronger resistance to sludge and varnish formation versus leading mineral oils, COMPRO provides worry-free operation and can reduce overall compressor maintenance costs.

## FEATURES AND BENEFITS

### Resists oxidative breakdown better than leading mineral oil based fluids

- Strong resistance to oxidative breakdown caused by exposure to air at high discharge temperatures
- Keeps compressor components free of sludge and varnish to ensure trouble free operation and lower maintenance costs on fluid change-out
- Provides oil change intervals of up to 2,000 hours service in rotary screw compressors, and 500 hours service in reciprocating compressor
- Reduces oil thickening, which can improve compressor efficiency and lower energy consumption costs

### High thermal stability reduces carbon deposit formation

- Improves compressor efficiency
- Extends maintenance intervals for valves and intercoolers

### Excellent protection against wear

- Prolongs the service life of working components
- Can extend the time between compressor overhauls
- Reduces overall maintenance costs

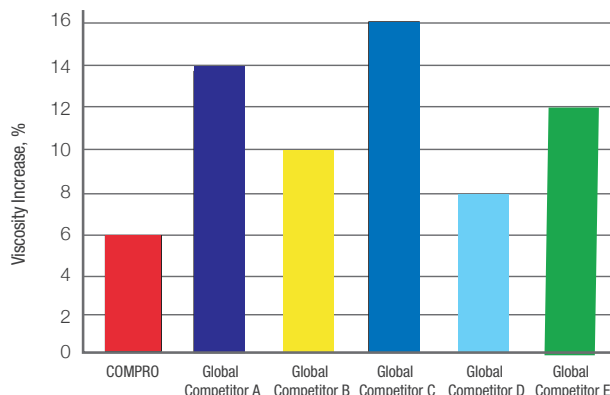
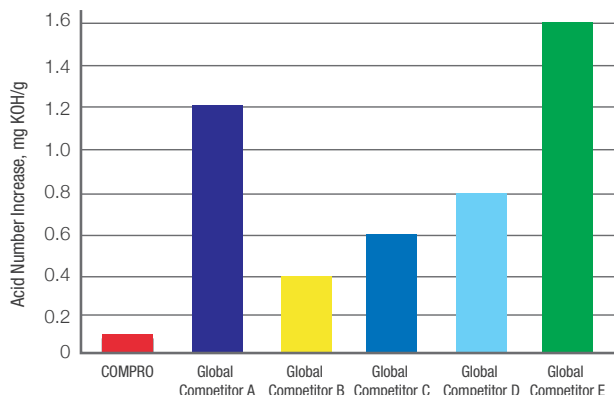
### Protects against rust and corrosion

- Helps to extend component life, especially when running intermittent service in high humidity conditions

### Low volatility reduces oil carry-over into the air system

- Reduces fluid consumption cost

**Fluid Thickening With Oxidation**  
IP 48/97 (Modified) Oxidation Test 200°C (392°F)



**COMPRO provides stronger resistance to oxidative breakdown than leading mineral oil based fluids. Stronger oxidation resistance keeps components free of sludge and varnish for trouble free operation and lower maintenance costs due to fewer fluid change-outs. It also reduces oil thickening, which can improve compressor efficiency and lower energy consumption costs.**

## APPLICATIONS

COMPRO is suitable for use in compressors that handle air, and inert gases such as nitrogen, argon, hydrogen, neon, helium, carbon dioxide, carbon monoxide and blast furnace gas.

COMPRO compressor fluids are designed to lubricate and cool all types of rotary screw, reciprocating, centrifugal and lobe compressors. COMPRO can be used in rotary screw compressors to a maximum of 2,000 hours at air discharge temperatures up to 85°C/185°F. In centrifugal compressors, COMPRO can be used for up to two years at air discharge temperatures up to 50°C/122°F and in reciprocating compressors, for shorter durations.

COMPRO is suitable for use in all makes of compressors, including:

- ABAC
- Allis Chalmers
- Atlas Copco
- Ceccato
- Champion Pacific
- Chicago Pneumatic Tool
- Compair Canada
- Copper-Bressemer
- Copper Industries
- Cooper-Penjax
- Davey Compressors
- Dresser Industries
- Elliot Company
- Fuller Company
- Gardner Denver
- Grimmer Schmidt
- Ingersoll Rand
- Joy Manufacturing
- Kaeser Compressors
- Kellogg-American
- Le Roi
- M&D Pneumatics
- MAHLE
- Mark
- Quincy Compressors
- Schramm Inc.
- Sullair Compressors
- Sundstrand Corp.
- Worthington Compressors

COMPRO compressor fluids are also suitable for use in industrial vacuum pumps operating with a vacuum of >0.005 mBar.

**NOTE: COMPRO 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 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 the full benefits of COMPRO 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. Please note that certain makes of compressors do not permit complete draining. If the drained oil is heavily oxidized, recharging with COMPRO may not result in optimum performance and fluid service life.

While COMPRO is fully compatible with most mineral and synthetic compressor fluids, it should not be mixed or contaminated with fluids containing polyalkylene glycols or silicones.

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

## COMPRESSOR FLUID GRADE SELECTION & SERVICE LIFE

Compressor Type	Recommended Viscosity Grades	Fluid Service Life at Maximum Air Discharge Temperature		
Rotary Screw	COMPRO 32	2,000 Hours	85°C	(185°F)
Reciprocating	COMPRO 68	500 Hours	150°C	(302°F)
Centrifugal / Lobe	COMPRO 32	16,000 Hours	50°C	(122°F)

Note: The above are general guidelines only. Consult the OEM service manual for specific make/model recommendations. A Petro-Canada Lubricants Technical Services Advisor can help to refine these recommendations for a given application.

COMPRO compressor fluids are designed for air compressors running under moderate conditions. For severe service or special compressor applications, we recommend the following:

### COMPRO XL-S Compressor Fluid

- Specially formulated to extended fluid life in rotary screw air compressors
- Delivers synthetic like performance and up to 8,000 hours of continuous worry-free service in rotary screw air compressors operating at air discharge temperatures up to 85°C/185°F
- Available in ISO 32, 46, 68, 100 and 150 viscosity grades

### COMPRO Synthetic Compressor Fluid

- Specially formulated to extended fluid life in rotary screw air compressors operating under extreme conditions, or where the risk of compressor downtime cannot be compromised
- Delivers up to 8,000 hours service life in rotary screw compressors operating at air discharge temperatures up to 105°C/221°F
- Available in an ISO 32 viscosity grade

## TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	COMPRO	
		32	68
Viscosity, cSt @ 40°C cSt @ 100°C SUS @ 100°F SUS @ 210°F	D445	36 5.7 186 45	68 8.7 352 55
Viscosity Index	D2270	108	99
Flash Point, COC, °C / °F	D92	230 / 446	238 / 460
Pour Point, °C / °F	D5950	-39 / -38	-30 / -22
Acid Number (AN), mg KOH/g	D664	0.30	0.30
Water Separability: mL @ 54°C / 129°F, (Minutes)	D1401	42-38-0 (10)	42-38-0 (15)
Corrosion Protection: Copper Corrosion, 3h @ 100°C Rust A – Distilled Water Rust B – Synthetic Sea Water	D130 D665 D665	1b Pass Pass	1b Pass Pass
Residue & Ash: Ramsbottom Carbon Residue, Mass %	D524	<0.1	<0.1

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

---

Learn more about us: [petrocanadalubricants.com](https://petrocanadalubricants.com)  
Contact us: [lubecsr@hfsinclair.com](mailto:lubecsr@hfsinclair.com)

Committed to the disciplined operation of our business.



**Petro-Canada Lubricants Inc.**  
2310 Lakeshore Road W. Mississauga, Ontario, Canada L5J 1K2  
[petrocanadalubricants.com](https://petrocanadalubricants.com)

Trademarks are owned or used under license.  
IM-7840E (2024.01)