

TECH DATA

SUPER VAC™ FLUID

VACUUM PUMP FLUIDS

INTRODUCTION

Petro-Canada Lubricants SUPER VAC Fluids are advanced lubricants specifically designed for use in mechanically operated vacuum pumps. SUPER VAC Fluids are blended with ultra-pure, high quality base oils and an additive system to provide extremely low vapour pressures for maximum pump efficiency. The anti-oxidant system delivers extended lubricant life under conditions of high pump load and elevated operating temperatures.

FEATURES AND BENEFITS

Exceptional synthetic-like resistance to high temperature fluid breakdown

- Extends the interval between fluid changes
- Minimizes deposits in vacuum pump systems
- Increases pump reliability and reduces maintenance costs

Ashless formulation uses non-toxic base oils

- Creates a clean, low vapour and odour-free work place

Fluid has a high viscosity index (VI)

- Strong lubricant film present over a wide range of temperatures
- Improves energy efficiency

Superior protection against corrosion

- Protects pumps from the corrosive effects of air, moisture and standard laboratory solvents

Food industry approved

- Acceptable as a lubricant in and around food processing areas where there is no possibility of food contact
- NSF H2 approved

APPLICATIONS

SUPER VAC Fluids are recommended for lubricating and cooling piston and rotary vane vacuum pumps handling air. They are particularly suited for pumps running at high operating temperatures from 100°C (212°F) to 130°C (266°F).

SUPER VAC Fluids are compatible with standard seal and hose materials except natural rubber, ethylene-propylene rubber (EPDM) and latex. SUPER VAC Fluids are compatible with mineral oils, polyalphaolefins (PAOs) and some semi-synthetic based lubricants though mixing vacuum pump fluids may reduce performance. SUPER VAC Fluids are incompatible with polyglycol based products.

SUPER VAC Fluids are also recommended for use in vacuum pumps handling inert gases such as nitrogen, hydrogen, carbon dioxide, carbon monoxide, argon, neon and helium.

SUPER VAC Fluids are NOT recommended for pumps handling strong oxidizing vapours from materials such as fuming nitric acid, sulphuric acid, hydrogen sulphide and glacial acetic acid.

TYPICAL PERFORMANCE DATA

Property	Test Method	SUPER VAC FLUID			
		15	19	20	70
Density, kg/L @ 15°C	D4052	0.861	0.865	0.868	0.866
Viscosity, cSt @ 40°C	D445	38	55	103	70
cSt @ 100°C		6.2	7.6	11.4	8.9
SUS @ 100°F		195	284	537	363
SUS @ 210°F		46.8	51.7	66.4	55.9
Viscosity Index	D2270	110	100	97	100
Flash Point, COC, °C / °F	D92	220 / 428	225 / 437	260 / 500	230 / 446
Pour Point, °C / °F	D5950	-18 / 0	-15 / 5	-12 / 10	-12 / 10
Corrosion Protection: Rust A - Distilled Water	D665	Pass	Pass	Pass	Pass
Rust B - Synthetic Sea Water		Pass	Pass	Pass	Pass
Rotary Pressure Vessel Oxidation Test, Minutes	D2272	1,000	1,000	1,000	1,000

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

Learn more about us: lubricants.petro-canada.com
Contact us: lubecsr@hfsinclair.com

Committed to the disciplined operation of our business.



Petro-Canada Lubricants Inc.
2310 Lakeshore Road W. Mississauga, Ontario, Canada L5J 1K2
lubricants.petro-canada.com

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