



## SUPER VAC VACUUM PUMP FLUIDS

### Introduction

Petro-Canada Super Vac Fluids are advanced lubricants specifically designed for use in mechanically operated vacuum pumps.

Super Vac Fluids are blended with semi-synthetic Petro-Canada HT Severely Hydrocracked base oils and a patented 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**
  - 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

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

Super Vac Fluids are compatible with standard seal and hose materials except natural rubber, ethylene-propylene rubber (EPDM) and latex. Mixing of vacuum pump fluids will reduce the performance of Super Vac Fluids. However, Super Vac Fluids are compatible with mineral oils, polyalphaolefins (PAOs) and some semi-synthetic based lubricants.

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.

#### What is the HT difference?

Petro-Canada starts with the patented HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



## Typical Performance Data

PROPERTY	TEST METHOD	SUPER VAC FLUID		
		15	19	20
Density, kg/L @ 15°C	D4052	0.861	0.865	0.868
Viscosity cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	D445	38 (195) 6.2 (46.8)	55 (284) 7.6 (51.7)	103 (537) 11.4 (66.4)
Viscosity Index	D2270	108	101	97
Vapour Pressure, mm Hg @ 25°C	–	6 x 10 <sup>7</sup>	5 x 10 <sup>8</sup>	5 x 10 <sup>8</sup>
Flash Point, °C (°F)	D92	220 (428)	225 (437)	260 (500)
Pour Point, °C (°F)	D97	-18 (0)	-15 (5)	-12 (10)
Corrosion Protection: Rust A - Distilled Water Rust B - Synthetic Sea Water	ASTM 665 ASTM 665	Pass Pass	Pass Pass	Pass Pass
Rotary Pressure Vessel Oxidation Test, minutes	D2272	1,000	1,000	1,000

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

## Health and Safety

Petro-Canada Super Vac Fluids has no adverse affect on health provided it is used as directed. To obtain Material Safety Data Sheets (MSDS), contact one of our TechData Info Lines.

## TechData Info Lines

If you would like to know more about Petro-Canada Super Vac Fluids, or any other product in our complete line of quality lubricants, please contact us at:

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