

# Fomblin Y

## LVAC Vacuum Pump Oil



**Kurt J. Lesker®**  
Company

**VACUUM MART™**  
DIVISION

### Description

Fomblin® Y grades are perfluorinated polyether inert fluids for use as lubricants in vacuum pumps. Fomblin® PFPE fluids are a mixture of fluorinated polymers obtained by a photochemical process that begins with hexafluoropropylene. Since the Fomblin® PFPE chemical chain contains only carbon, fluorine and oxygen atoms.

### Features

- Low Vapor Pressure
- Chemically inert
- High thermal stability
- No Flash Point
- Low Toxicity
- Excellent compatibility with metals, plastics, elastomers
- Good radiation stability
- Environmentally acceptable
- Recyclable

### Why buy from KJLC?

- Exclusive North American Distributor
- Exclusive European Distributor
- Stock in Pittsburgh, PA; Livermore, CA; Hastings, UK; Shanghai, China
- Vacuum Consultant

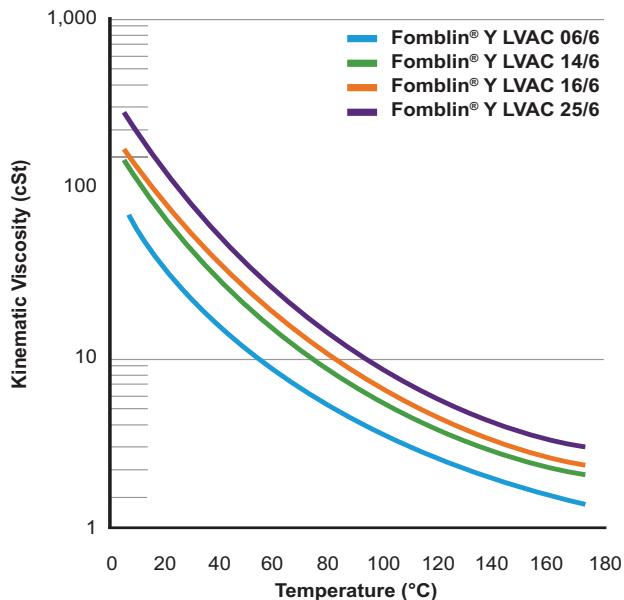
[www.lesker.com](http://www.lesker.com)

Applications	Y LVAC Grade			
	06/6	14/6	16/6	25/6
Rotary Pumps – Sealing & Lubricant Fluid	•	•		•
Turbomolecular Pumps – Lubrication	•			
Roots Pumps – Lubrication			•	•

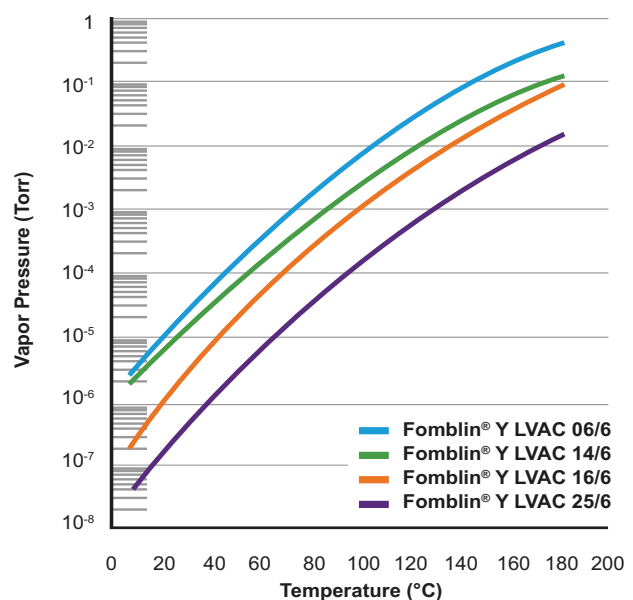
## Typical Properties

Typical Property	Units	Fomblin® Y LVAC Grades			
		06/6	14/6	16/6	25/6
Average Molecular Weight	amu	1800	2500	2700	3300
Density (20°C) (68°F)	g/cm <sup>3</sup>	1.88	1.89	1.89	1.90
Kinematic Viscosity (20°C) (68°F)	cSt	64	148	168	276
Viscosity Index (20°C) (68°F)	—	71	97	110	113
Vapor Pressure					
@ 25°C (68°F)	torr	8x10 <sup>-7</sup>	1x10 <sup>-7</sup>	2x10 <sup>-6</sup>	6x10 <sup>-8</sup>
@100°C (212°F)	torr	8x10 <sup>-3</sup>	2x10 <sup>-4</sup>	2x10 <sup>-4</sup>	6x10 <sup>-5</sup>
Pour Point	°C	-50	-45	-45	-35
	°F	-58	-49	-49	-31
Heat of Vaporization (200°C) (392°F)	cal/g	11	8	8	7
Surface Tension	dyne/cm	21	22	22	22
Evaporation Loss	% by wt.	2.8	2.6	3.9	0.6
(22 hrs; 149°C for 14/6, and 25/6, 120°C for 06/6)					

**Fomblin® Y LVAC**  
Kinematic viscosity vs. temperature



**Fomblin® Y LVAC**  
Vapor pressure vs. temperature



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