



CLEARCO DPF-7040 Diffusion Pump Fluid

Tetraphenyltetramethyltrisiloxane (CAS#3982-82-9) Ultimate Vacuum, torr 10-7 to 10-8 (untrapped), 10-11 (trapped)



Vacuum Diffusion Pumps.

Clearco DPF-7040 is a high percentage Tetraphenyltetramethyltrisiloxane (CAS# 3982-82-9) that is formulated for use in Diffusion Pumps. It is designed for fast pumping of large volumes of gas or vapor in production operations.

Clearco DPF-7040 is a single-component fluid for high vacuums of 10-7 to 10-8 torr (untrapped) and to 10-11 torr (trapped). It performs well in tough, rugged applications and offers quick pumpdown, even after exposure to air at operating temperatures.

FEATURES

Shorter conditioning runs: single component silicone fluids reach potential in far less time than that required for multi-component organic fluids.

Faster pumping: diffusion pumps using silicone fluids can operate against 20 to 300 percent higher fore-pressures than those using organic fluids. For higher gas through-put at the high-pressure end of the pump's operating range, heater input can be increased 20 to 30 percent.

Minimal back streaming: the vapor pressure of single-component silicone fluids is so low that the use of traps – or refrigeration of existing traps – is unnecessary for many applications.

Longer service life: Silicones are thermally and chemically stable – they allow for exceptionally long runs without deterioration or contamination.

Faster Cycling: Reduces downtime, less frequent fluid replacement. The recovery rate of silicone fluids after exposure to air at operating temperatures is many times faster than that of organic fluids. Time is saved due to the oxidation and hydrolysis resistance of the DPF-70 without cooling the pump.

Cleaner Systems: less maintenance is required. Low vapor pressure of silicone fluids at baffle temperatures results in low migration rates. Silicone fluids exhibit virtually no breakdown or decomposition under normal operational conditions.

SPECIFICATIONS

Chemical Name	Tetraphenyl-tetramethyltrisiloxane
CAS #	3982-82-9 > 95%
Appearance	Clear Liquid
Ultimate Vacuum, torr untrapped trapped	10-7 to 10-8 10-11
Flash Point	221 °C COC
Availability	1kg containers 10kg containers
Weight	8.88 lbs per gallon 4.03 kg per gallon
Minimum Order	1 kg.

Typical Product Data For Clearco DPF-70 Diffusion Pump Fluid

Product	Viscosity @ 25°C	Vapor Pressure	Vapor Density (air = 1)	% Volatile	Specific Gravity	Molecular Weight	Surface Tension	Pour Point	Flashpoint °C	Refractive Index
DPF-70	35-40cSt	<0.0001 mm	>5	<1%	1.07	485	37.3	-35°C	221°C	1.556

Packaging

1kg container (minimum order)
10kg container

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