

INVOIL® 702 Diffusion Pump Fluid

- Superior Vapor Pressure Capabilities
- Resistant to Oxidation
- Thermal Stability
- Quick Pumpdown Cycles



Invoil 702 is designed for the rapid pumping of large volumes of gas. It has the important advantage of thermal stability. The silicone based fluid is resistant to air at operating temperatures, so the pumps require no cooling between cycles.

Specifications	
Vapor Pressure @ 25°C	.....3.3 x 10 ⁻⁶ torr
Boiling Point @ .50 torr:	.....190°C (374°F)
Viscosity @ 40°C :	.....26.8 cst (127.3 SUS)
Viscosity @ 100°C:	.....6.2 cst (46.5 SUS)
Pour Point:	.....<0°C (<32°F)
Flash Point:	.....193°C (380°F)
Fire Point:	.....None
Density:	.....1.07 gm/cc

Part No.	Description	Price
IN702	Invoil 702, 500cc bottle	
IN702-1	Invoil 702, 1 gal. bottle	

INVOIL® 704 Diffusion Pump Fluid

- Superior Vapor Pressure Capabilities
- Resistant to Oxidation
- Thermal Stability
- Quick Pumpdown Cycles
- Identical to Dow Corning 704



Invoil 704 is a single component silicone diffusion pump fluid for high vacuums 10⁻⁶ to 10⁻⁸ torr range. This diffusion pump fluids' low vapor pressure and thermal stability make it popular in many systems such as mass spectrometers and electron microscopes. It performs well in most applications and offers quick pumpdown, even after exposure to air under operating conditions.

Specifications	
Vapor Pressure @ 25°C	.....2 x 10 ⁻⁸ torr
Boiling Point @ .50 torr:	.....220°C (428°F)
Viscosity @ 40°C :	.....24.2 cst (115 SUS)
Viscosity @ 100°C:	.....6.2 cst (46.5 SUS)
Pour Point:	.....<-9°C (<16°F)
Flash Point:	.....221°C (430°F)
Fire Point:	.....None
Density:	.....1.07 gm/cc

Part No.	Description	Price
IN704	Invoil 704, 500cc bottle	
IN704-1	Invoil 704, 1 gal. bottle	

INVOIL® 705 Diffusion Pump Fluid

- Ultra High Vacuum Applications
- Extremely Low Vapor Pressure Capabilities
- Little or No Backstreaming
- Identical to Dow Corning 705



Invoil 705 silicone diffusion pump fluid is a single component fluid designed for ultra high vacuum systems in the 10⁻⁷ to 10⁻⁹ torr range. With the use of traps, Invoil 705 is capable of attaining a pressure of 10⁻¹¹ torr. The low vapor pressure, low backstreaming rate and the high resistance to oxidation and radiation make this diffusion pump fluid ideal for many ultra high vacuum applications such as those in mass spectrometers and electron microscopes.

Specifications	
Vapor Pressure @ 25°C:	...2.4 x 10 ⁻⁹ torr
Boiling Point @ .50 torr:	...250°C (482°F)
Viscosity @ 40°C:	.....66cst (306 SUS)
Viscosity @100°C:	.....9.8 cst (58.4 SUS)
Pour Point:	.....<0°C (<32°F)
Flash Point:	.....243°C (470°F)
Fire Point:	.....None
Density:	.....1.09 gm/cc

Part No.	Description	Price
IN705	Invoil 705, 500cc bottle	
IN705-1	Invoil 705, 1 gal. bottle	