

CHEMSIL 704

Applications:

Chemsil 704 is the Ultrachem silicone replacement for Dow Corning® 704 Diffusion Pump Fluid. Chemsil 704 Diffusion Pump Fluid is a single-component fluid for high vacuums of 10^{-6} to 10^{-8} torr (untrapped) and 10^{-10} to 10^{-11} (trapped). It performs well in tough, rugged applications and offers quick pumpdown, even after exposure to air at operating temperatures.

Performance Benefits:

- Shorter conditioning runs
- Faster pumping
- Minimal backstreaming
- Longer service life
- Cleaner systems, less maintenance required
- Silicone fluids are resistant to oxidation and hydrolysis

ULTRACHEM

TYPICAL PROPERTIES	TEST METHOD	Chemsil 704
Ultimate Vacuum, torr, Untrapped		10^{-7} to 10^{-8}
Trapped		To 10^{-11}
Extrapolated Vapor Pressure, torr, 25°C (77°F)		2×10^{-8}
Viscosity @ 25°C, cSt	ASTM D445	39
Flash Point, open cup, °C (°F)	ASTM D92	221/430
Boiling Point, at 0.5 torr, °C (°F)		215/419
Typical Boiler Temperature, °C (°F)		220/428
Surface Tension, dynes/cm		37.3
Heat of Vaporization, kcal/g mole		25.5/200°C (392°F)
Molecular Description		Tetramethyltetra-phenyltrisiloxane
Molecular Weight		484
Vapor Pressure Equation, Log ₁₀ P = A-B/T <small>(P = Vapor Pressure, torr; T = absolute temperature, °K)</small>		A = 11.025 B = 5570
Specific Gravity at 25°C (77°F)	ASTM D1298	1.07

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HEALTH & SAFETY

To obtain an MSDS on this or any other Ultrachem product, please contact your representative.

TECHNICAL SUPPORT

To learn more about Ultrachem products and applications please contact us at info@ultracheminc.com



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