

TMC 705 Silicone Diffusion Pump Fluid

TMC 705 diffusion pump fluid is a single component (Pentaphenyl trimethyl trisiloxane), clear fluid that is chemically equivalent to Dow Corning® DC-705. Developed for use in ultra-high vacuums of 10^{-9} Torr (untrapped) and 10^{-11} (trapped), TMC 705 performs well in high purity metalizing applications where quick pump-down is needed, as well as thermal, radiation and chemical stability.

Because of its low vapor pressure, TMC 705 can reduce the chances for contamination in untrapped systems by a factor of 100 or more compared to TMC 704 and other fluids. The vapor pressure is so low, that deepest vacuum levels can be obtained with water-cooled baffles alone.

Using TMC Industries' [reclamation services](#), TMC 705 can be reclaimed many times saving you money and disposal costs.



Summary

- Thermally and chemically stable
- Ideal for high gas load applications
- Chemically equivalent to DC-705
- Aerospace and electronics industries
- Quick pump-down
- Pump jets stay clean
- Metallurgical and research needs
- Reclaimable by TMC Industries, Inc.

Specifications

Vapor Pressure @ 25° C (77° F).....	10^{-8} to 10^{-10} Torr
Viscosity @ 25° C (77° F)	160 cSt
Boiling Point @ .5 Torr	243° C (469° F)
Specific Gravity @ 25° C (77° F).....	1.097
Flash Point (Open Cup).....	>240° C (464° F)
Color.....	Light straw



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