GBR TECHNOLOGY LIMITED

Technical Data Sheet

CVC 5 - Silicone Diffusion Pump Fluid

Pentaphenyltrimethyl trisiloxane rich fluid for producing ultra high vacuums in the range 10^{-9} - 10^{-11} Torr. Exhibits excellent chemical, oxidation, thermal, hydrolysis and radiation resistance. Extremely low back streaming properties









Features:

- Good resistance to high temperature breakdown
- Ultra high vacuum performance
- Extremely low back streaming properties
- Rapid pump down
- Safer to use than hydrocarbon diffusion pump fluids

Pack sizes:

500cc, 1kg, 5kg, 20kg

Further technical information is available upon request.

Applications:

Intended for use where ultra high vacuum conditions are required.

- UHV characteristics particularly useful for thin film, surface technology, thermonuclear and plasma physics applications as well as electron microscopes
- Extreme stability and high spontaneous ignition temperature make it ideal for use in space-simulation chambers
- Low vapour pressure and low back streaming rate make cold and refrigeration traps unnecessary for pressures in the 10^{-8} Torr range.

Typical characteristics:

Specific Gravity gcm^{-3} @ 25°C	1.09
Viscosity cSt @ 25°C	175 typical
Flash Point Open Cup°C	>240
Boiling Point (under vacuum) °C	240 typical
Ultimate Pressure Torr	10^{-9} - 10^{-11}

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