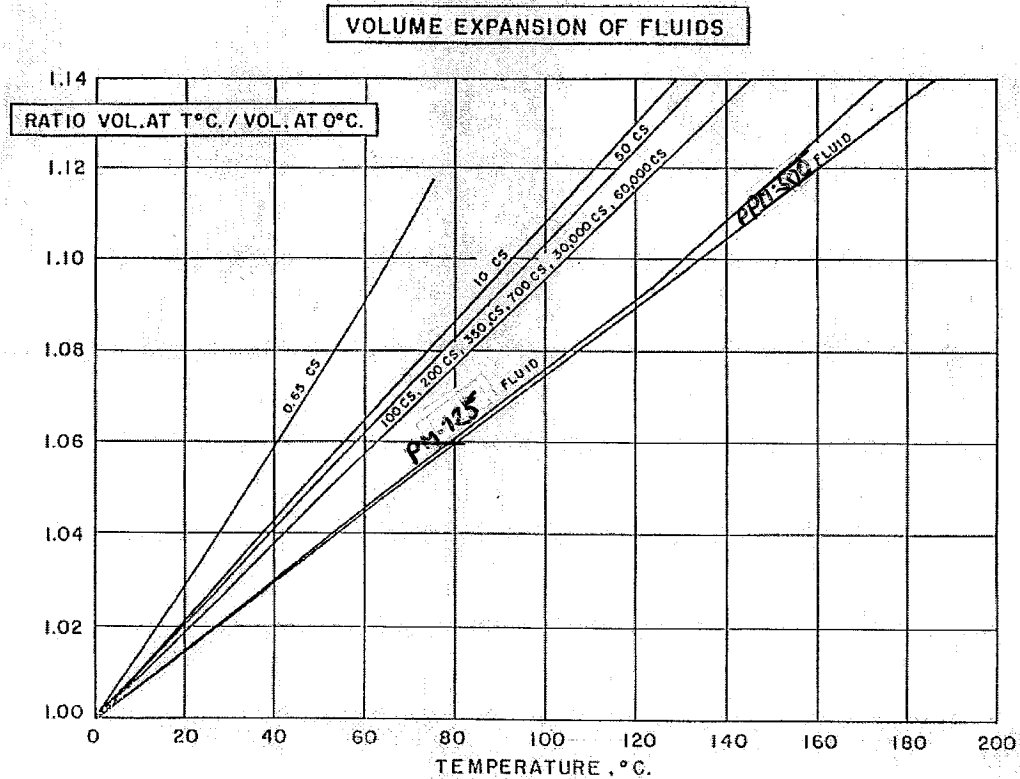


## Volume Expansion of Silicone Fluids

Thermal Expansion coefficients are generally applicable only between 0°C and 100°C, and even with these limits, a considerable amount of calculation is involved. We have, therefore, determined the actual changes in volume with temperature for representative numbers of the Clearco Pure Silicone Fluids and Phenylmethyl Fluids.

These values in relation to volume at 0°C are plotted in the below graph. Given the volume of any one of the fluids at 0°C, you can calculate its volume at temperature "t" by multiplying the 0°C volume by the volume ration shown in the graph for that fluid at temperature t. Using this method, Pure Silicone 0.65cSt (PSF-0.65cSt) shows an 8% increase in volume between 25°C and 75°C. In addition, the curves may be extrapolated above and below these temperatures with reasonable accuracy.



Formula: 0.00096cc/cc/Degree C