

FILL FLUID SPECIFICATIONS – INERT (HALOCARBON)

Temperature Limits:

At Atm Pressure: -45 to 160°C (-49 to 320°F)

Viscosity at 25°C(77°F): 6.5 cs (4.2 cs at 100°F)

Specific Gravity @ 25°C(77°F): 1.85

Coefficient of Thermal Expansion: 0.000864 cc/cc/C (0.00060 cc/cc/F)

Chemical Composition: Chlorotrifluoroethylene polymer (CTFE)

CAS Number: 9002-83-9

Description/ Applications: Halocarbon is the Inert Fill offering with our remote seals. Halocarbon 4.2 fill fluid refers to the viscosity in centistokes at 100 °F. It is essentially non-reactive to a wide range of chemicals, including halogens, oxygen, and other specialty gas applications. Other applications to consider Halocarbon include those in which silicone fluids are banned due to product contamination problems (i.e. paint manufacturing). It's higher vapor pressure than standard DC200 silicone does restrict applications, especially if vacuum service. It should not be used for Food Grade applications. CTFE oils are available in various viscosity from 0.8 cSt to 1000 cSt at 1000 °F. Halocarbon 0.8 cSt is available as a 1199 special fill fluid mainly for cryogenic applications. The 0.8 cst fluid ASTM D97 Pour Point is -200 °F. Halocarbon 27 cSt is also available for vacuum services that cannot use silicones.

HALOCARBON VAPOR PRESSURE RESULTS (ASTM E1782)

