

Syltherm XLT

SYLTHERM XLT* heat transfer fluid is a specially formulated, high performance silicone polymer designed for use as a low temperature, liquid phase heat transfer medium. It offers outstanding low temperature heat transfer and pumpability, plus excellent thermal stability. SYLTHERM XLT fluid has essentially no odor, is low in acute oral toxicity, and is not listed as reportable under SARA Title III, Section 313 (1). Recommended use temperature range: -150 °F to 500 °F (-100 °C to 260 °C)

Suitable applications: Single fluid process heating and cooling systems in the pharmaceutical and fine chemical industries.

For health and safety information for this product, contact your Dow sales representative for a Material Safety Data Sheet (MSDS)

Typical Properties of SYLTHERM XLT(a)

SYLTHERM XLT Heat Transfer Fluid
Composition: Dimethyl polysiloxane
Appearance: Crystal Clear Liquid

Property	English Units	SI Units
Viscosity at 77 °F (25 °C)	1.4 cp	1.4 mPa·s
Flash Point, Closed Cup (b)	116°F	47°C
Flash Point, Open Cup (c)	130 °F	54°C
Autoignition Point, ASTM D-2155	662°F	350°C
Acid Number, Typical	0.01	
Freeze Point	-168°F	-111°C
Density at 77 °F (25 °C)	7.1 lb/gal	852 kg/m ³
Specific Gravity at 77 °F (25 °C)	0.85	
Heat of Combustion	14,100 Btu/lb	32,800 kJ/kg
Average Molecular Weight	317	
Estimated Critical Temperature	620°F	327°C
Estimated Critical Pressure	12 atm	12.16 bar
Estimated Critical Volume	0.063 ft ³ /lb	3.9 l/kg

a) Not to be construed as specifications

(b) ASTM D92

(c) ASTM D93