

OVERVIEW

Duratherm XLT-50 is engineered for long term operation in heat transfer applications requiring precise temperature control ranging from **-50°F** up to **350°F** (-45°C to 176°C).

Ideal for cryogenic applications

Duratherm XLT-50's economic cost and wide operating temperature also makes it well suited for heating and cooling applications found in the food processing, pharmaceutical and chemical industries etc.

APPLICATION

Duratherm XLT-50 is engineered for long term operation in heat transfer applications requiring precise temperature control ranging from **-50°F** up to **350°F** (-45°C to 176°C).

TROUBLE-FREE OPERATION

Duratherm XLT-50 heat transfer oil does not requiring monitoring of concentration or additive levels.

LASTS LONGER

Duratherm XLT-50 heat transfer oil utilizes our exclusive additive system for long term, trouble free operation at any temperature, high or low.

ENVIRONMENTAL

Duratherm XLT-50 heat transfer oil is plant and user friendly. Low odors, high flash point and no SARA reportable substances makes XLT-50 the wise choice for worker health and safety.

DISPOSAL

After its extensive service life **Duratherm XLT-50** heat transfer oil can be disposed of through local waste oil recycling programs. Check with your local regulations.

DURATHERM XLT-50 PROPERTIES

Appearance: clear liquid, slight yellow tint		
Maximum Bulk/Use Temp.*	350°F	176°C
Minimum Bulk/Use Temp.*	-50°F	-45°C
Flash Point ASTM D92	210°F	99°C
Fire Point ASTM D92	240°F	115°C
Viscosity ASTM D445		
cSt at -22°F / -30°C	20.2	
cSt at 86°F / 30°C	1.9	
cSt at 350°F / 176°C	0.6	
Pour Point (estimated)	-70°F	-56°C
Density ASTM D1298		
	lb/ft³	g/ml
at -22°F / -30°C	53.8	0.863
at 86°F / 30°C	52.0	0.832
at 350°F / 176°C	40.0	0.640
Carbon Residue ASTM D189	0.005	% Mass
Sulphur Content X-RAY	<.001	weight %
CU Strip Corrosion ASTM D130	1a	
Thermal Conductivity		
	BTU/hr F ft	BTU/hr F ft
at -22°F / -30°C	0.080	0.138
at 86°F / 30°C	0.077	0.134
at 350°F / 176°C	0.067	0.115
Heat Capacity		
	BTU/lb F	kJ/kg K
at -22°F / -30°C	0.465	1.946
at 86°F / 30°C	0.495	2.072
at 350°F / 176°C	0.597	2.499
Vapor Pressure ASTM D2879		
	psi	kPa
at -22°F / -30°C	0.00	0.00
at 100°F / 38°C	0.02	0.13
at 350°F / 176°C	9.26	63.84
Distillation Range ASTM D2887		
	10%	358°F (181°C)
	90%	546°F (285°C)
*Maximum Film Temp.	390°F	198°C

The values quoted are typical of normal production. They do not constitute a specification.