

Over 25 years of experience developing fluids for the heat transfer industry and working with equipment manufacturers has given us a unique understanding of heat transfer fluids and what it takes to make a fluid that performs optimally in each type of application. Generic and multi use fluids just can't be all things to all applications.

Applications

Duratherm XLT -120 is engineered for long term operation in heat transfer applications requiring precise temperature control ranging from -120°F up to 150°F (-84°C to 65°C).

Ideal for cryogenic applications Duratherm XLT-120'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.

Longevity

Duratherm XLT -120 utilizes our exclusive additive system for long term, trouble free operation at any temperature, high or low.

Trouble Free Operation

Duratherm XLT-120 does not require monitoring of concentration or additive levels.

Environmental

Duratherm XLT -120 is plant and user friendly. Low odors, high flash point and no SARA reportable substances makes XLT the wise choice for worker health and safety.

Disposal

After it's extensive service life Duratherm XLT -120 can be disposed of through local waste oil recycling programs. Check your local regulations.

Synopsis

Duratherm XLT -120 is an extreme low temperature heat transfer fluid that maintains excellent fluidity and heat transfer down to -120F and is capable of heating to 150F.

Properties	Test Method	Duratherm XLT
Appearance		Amber/Yellow
Maximum use Temperature		65°C (150°F)
Minimum Use Tempertaure		-84°C (-120°F)
Density at -30°C, g/ml (lb/ft ³)	ASTM D1298	0.863 (53.84)
at 30°C, g/ml (lb/ft ³)		0.833 (51.89)
Flash Point, °C (°F)	ASTM D92	48.8°C (120°F)
Fire Point, °C (°F)	ASTM D92	60.0°C (140°F)
Carbon Residue, % Mass	ASTM D189A	0.005
Sulphur Content, weight %	X-RAY	<.001
Cu Strip Corrosion	ASTM D130	1a
Viscosity, cSt at -40° C (-40° F)	ASTM D445	8.53
cSt at 0° C (32° F)		3.10
cSt at 65° C (150° F)		1.37
Pour Point, °C (°F) (estimated)	ASTM D97	-90°C (-130°F)
Thermal Conductivity, W/m K (BTU/hr F ft)		
at -40°C (-40° F)		0.138 (0.080)
at 0°C (32°F)		0.136 (0.079)
at 65°C (150° F)		0.131 (0.076)
Heat Capacity, kJ/kg K (BTU/lb F)		
at -40°C (-40° F)		1.926 (0.460)
at 0°C (32°F)		2.015 (0.481)
at 65°C (150° F)		2.177 (0.520)
Vapor Pressure, kPa (psi)	ASTM D2879	
at 15°C (60°F)		0.00 (0.00)
at 38°C (100°F)		0.13 (0.02)
at 65°C (150°F)		29.71 (4.31)
Distillation Range, °C (°F)	ASTM D2887	
10%		82 °C (181°F)
90%		165°C (546°F)

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