DURATHERM
EXTENDED LIFE FLUIDS

Duratherm XLT-50

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-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 to176°C).

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

Longevity

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

Trouble Free Operation

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

Environmental

Duratherm XLT-50 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-50 can be disposed of through local waste oil recycling programs. Check your local regulations.

Synopsis

Duratherm XLT -50 is an extreme low temperature heat transfer fluid with a high flash point and a boiling point above it's maximum rated temperature making it safe and easy to use.

Properties	Test Method	Duratherm XLT	
Appearance		Amber/Yellow	
Maximum use Temperature		176°C	(350°F)
Minimum Use Tempertaure		-45°C	(-50°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)
at 120° C, g/ml (lb/ft^3)		0.662	(41.3)
Flash Point, °C (°F)	ASTM D92	98.8°C	(210°F)
Fire Point, °C (°F)	ASTM D92	240°C	(240°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	68.53	
cSt at 0° C (32° F)		3.2	
cSt at 176° C (350° F)		0.76	
Pour Point, °C (°F) (estimated)	ASTM D97	-95°C	(-140°F)
Thermal Conductivity, W/m K (BTU/hr F ft)			
at -30°C (-22° F)		0.138	(0.080)
at 30°C (86°F)		0.134	(0.077)
at 176°C (350° F)		0.116	(0.067)
Heat Capacity, kJ/kg K (BTU/lb F)			
at -30°C (-22° F)		1.950	(0.465)
at 30°C (86°F)		2.076	(0.495)
at 176°C (350° F)		2.500	(0.597)
Vapor Pressure, kPa (psi)	ASTM D2879		
at 15°C (60°F)		0.00	(0.00)
at 38°C (100°F)		0.14	(0.02)
at 93°C (200°F)		8.41	(1.22)
at 176°C (350°F)		63.85	(9.26)
Distillation Range, °C (°F)	ASTM D2887		
Intial		178°C	(352°F)
10%		181°C	(358°F)
90%		285°C	(546°F)

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

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