

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 630 is a high performance, efficient and environmentally friendly fluid engineered for applications requiring high temperature stability to 630°F. Offering precise temperture control it's a great alternative to high temperature aromatic fluids, at a fraction of the cost.

It is ideal for a wide range of applications including, high temperature batch processing, chemical reactions, pharmaceutical and resin manufacturing among others.

Longevity

In the heat transfer fluid industry cost is always a concern, however fluid longevity and resistance to harmful fouling are of equal importance.

Air contact is normally detrimental to a fluid. Oxidation can cripple your system and if left unchecked will ultimately cause catastrophic failure. Unscheduled downtime due to oil failure has a high cost and negative effect on production.

The Duratherm product line was developed with this in mind. Most other fluids fall short in their protection from oxidation and can quickly foul a system. Duratherm is engineered to give unsurpassed levels of protection and service life.

The Difference

Our exclusive additive package, including a proprietary dual stage anti-oxidant, ensures long trouble free operation. Duratherm also incorporates metal deactivators, a seal and gasket extender, defoaming and particle suspension agents.

Environmental

Duratherm 630 is environmentally friendly, non-toxic, non-hazardous and non-reportable. Worker health and safety is of great concern, Duratherm 630 poses no ill effect to worker safety. After its long service life it can easily be disposed of with other waste oils.

System Cleaning

In our effort to truly service the heat transfer industry, we have developed unique and specific heat transfer system cleaners. Ranging from preventative maintenance system cleaners to emergency downtime system revivers, we have a cleaner that fits your needs and schedule.

Synopsis

Duratherm 630 is an oxidative and thermally stable, high performance, long lasting, environmentally friendly heat transfer fluid. Offering precise temperature control and long life at an economical cost.

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	Properties	Test Method	Duratherm 630		
	Appearance		Crystal Clear		
	Maximum use Temperature		332°C	630°F	
	Density at 38°C, g/ml (lb/ft)	ASTM D1298	0.837	(52.26)	
	at 260°C, g/ml (lb/ft)		0.686	(42.9)	
	at 316° C, g/ml (lb/ft)		0.651	(40.63)	
	Flash Point, °C (°F)	ASTM D92	229°C	(444°F)	
	Fire Point, °C (°F)	ASTM D92	244°C	(472°F)	
	Autoignition Temperature, °C (°F)	ASTM E-659-78	368°C	(693°F)	
	Carbon Residue, % Mass	ASTM D189A	0.005		
	Sulphur Content, weight %	X-RAY	<.001		
	Cu Strip Corrosion	ASTM D130	1a		
	Average Molecular Weight		395		
	Viscosity, cSt at 40 C (104 F)	ASTM D445	33.2		
	cSt at 100 C (212 F)		05.9		
	cSt at 316 C (600 F)		0.75		
	Pour Point, °C (°F)	ASTM D97	-18°C	(-1°F)	
	Coefficient of Thermal Expansion, %/	°C(%/ °F)	0.1011	(0.0562)	
	Thermal Conductivity, W/m K (BTU/h	r Fft)			
	at 38°C (100 F)		0.145	(0.084)	
	at 260°C (500 F)		0.135	(0.078)	
	at 316°C (600 F)		0.130	(0.076)	
	Heat Capacity, kJ/kg K (BTU/lb F) at 38°C (100°F)		2.01	(0.48)	
	at 260°C (500°F)		2.77	(0.46)	
	at 316°C (600°F)		2.96	(0.71)	
	Vapor Pressure, kPa (psi)	ASTM D2879			
	at 15°C (60°F)		0.00	(0.00)	
	at 38°C (100°F)		0.41	(0.06)	
	at 260°C (500°F)		2.41	(0.55)	
	at 316°C (600°F)		10.69	(2.22)	
	Distillation Range, °C (°F)	ASTM D2887			
	10% 90%		386°C 483°C	(727°F) (902°F)	
	The values quoted are typical of normal production. They do not constitute a specification.				



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