

OVERVIEW

Duratherm 630 is a high performance, efficient and environmentally friendly fluid engineered for applications requiring high temperature stability to 630°F. Offering precise temperature 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.

APPLICATION

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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, de foaming and particle suspension agents.

LASTS LONGER

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.

RUNS CLEANER

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.

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.

DURATHERM 630 PROPERTIES

Appearance: colorless, clear and bright liquid		
Maximum Bulk/Use Temp.*	630°F	332°C
Flash Point ASTM D92	444°F	229°C
Fire Point ASTM D92	472°F	244°C
Autoignition ASTM E-659-78	693°F	368°C
Viscosity ASTM D445		
cSt at 104°F / 40°C	36.2	
cSt at 212°F / 100°C	7.0	
cSt at 600°F / 316°C	0.7	
Pour Point ASTM D97	-1°F	-18°C
Density ASTM D1298		
	lb/ft³	g/ml
at 100°F / 38°C	52.8	0.845
at 500°F / 260°C	43.4	0.695
at 600°F / 316°C	41.2	0.658
Average Molecular Weight		
	395	
Carbon Residue ASTM D189	0.005	% Mass
Sulphur Content X-RAY	<.001	weight %
CU Strip Corrosion ASTM D130	1a	
Thermal Expansion Coefficient		
	0.0562 %/°F	0.1011 %/°C
Thermal Conductivity		
	BTU/hr F ft	W/m.K
at 100°F / 38°C	0.082	0.141
at 500°F / 260°C	0.075	0.130
at 600°F / 316°C	0.074	0.128
Heat Capacity		
	BTU/lb F	kJ/kg K
at 100°F / 38°C	0.471	1.971
at 500°F / 260°C	0.645	0.645
at 600°F / 316°C	0.685	2.876
Vapor Pressure ASTM D2879		
	psia	kPa
at 100°F / 38°C	0.00	0.00
at 500°F / 260°C	0.83	2.68
at 600°F / 316°C	1.64	11.30
Distillation Range ASTM D2887		
	10%	727°F (386°C)
	90%	902°F (483°C)
*Maximum Film Temp.	670°F	354°C

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