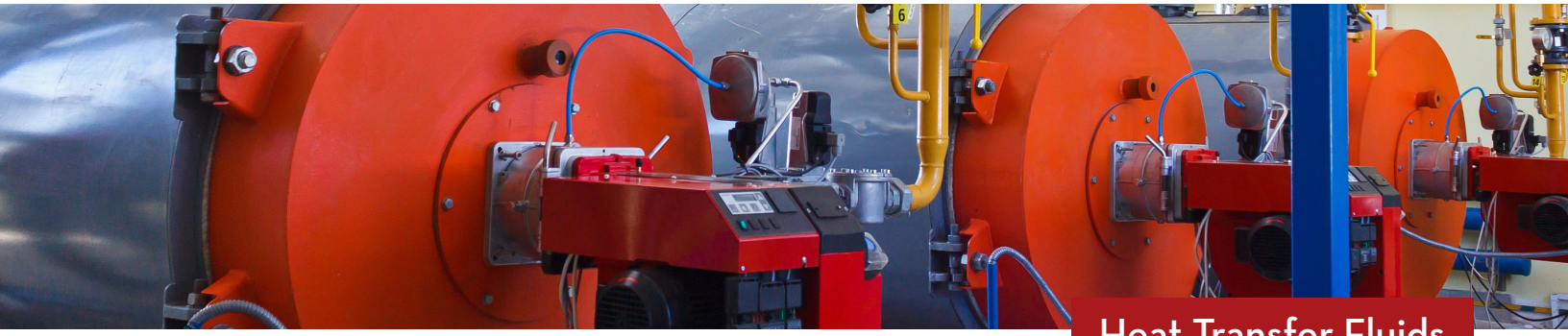
Caldera 6

PAG Heat Transfer Fluid



Heat Transfer Fluids

Caldera 6 is a high-quality, heat transfer fluid designed to replace polyalkylene glycol (PAG) based alternatives. It is fully compatible with most PAG based heat transfer fluids and is ideal for open-bath systems. Caldera 6's proprietary formulation is more oxidativly stable than glycol based heat transfer fluids, and provides hours of trouble-free service, even in the most demanding applications.

Applications

- Open-bath systems
- Closed and open loop systems with a maximum bulk temperature of 500°F (260°C)

Performance Advantages

- **Ideal for open-bath systems**
  Resists fluid degradation from air exposure
- **Low varnishing tendencies**
  Allows for clean operation and greater thermal transfer efficiency
- **Easy disposal**
  Can be disposed using mineral oil recycling services
- **Minimal odor**

Temperature Range

Typical Properties	Caldera 6
Minimum Temperature, °F (°C)	19 (-7)
Maximum Film Temperature, °F (°C)	550 (288)
Maximum Bulk Temperature, °F (°C)	500 (260)
Pour Point, °F (°C)	-40 (-40)
Flash Point, °F (°C)	480 (249)
Fire Point, °F (°C)	505 (263)
Autoignition Point, °F (°C)	366 (691)
Thermal Expansion Coefficient, %/°C	0.0679
Thermal Conductivity @ 38°C, W/m-K	0.182
Thermal Conductivity @ 260°C, W/m-K	0.160
Heat Capacity @ 38°C, kJ/kg-K	1.976
Heat Capacity @ 260°C, kJ/kg-K	2.207
Distillation Range (ASTM D2887), 10% °C	368
Distillation Range, 90%	514
Average Molecular Weight	--

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toll-free: 1-800-503-9533
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All products manufactured in the USA

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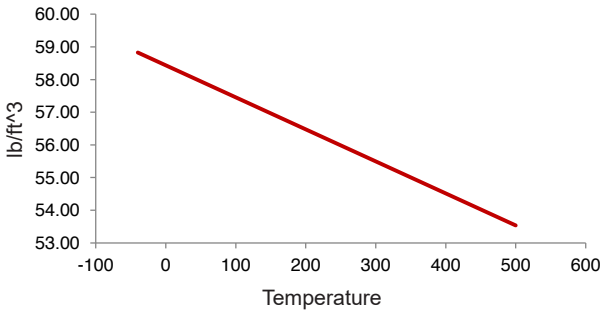
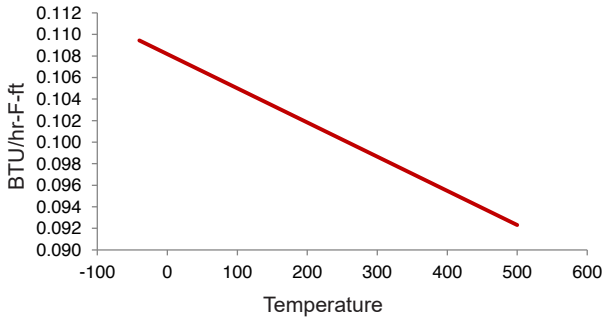
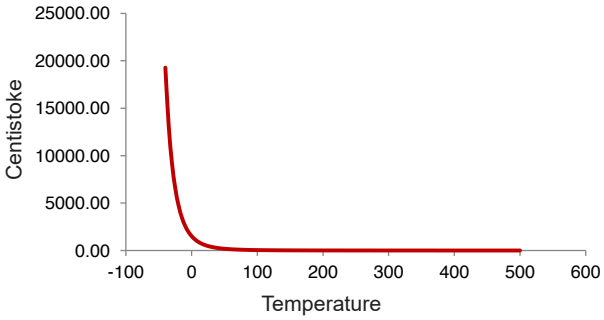
Density



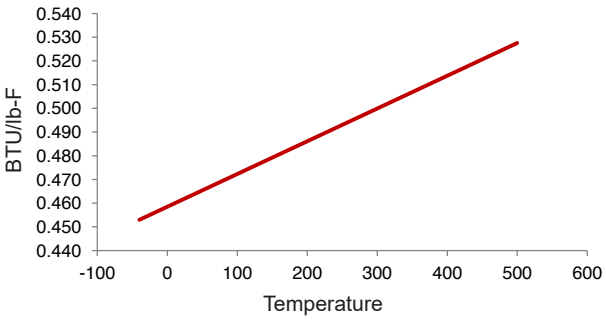
Thermal Conductivity



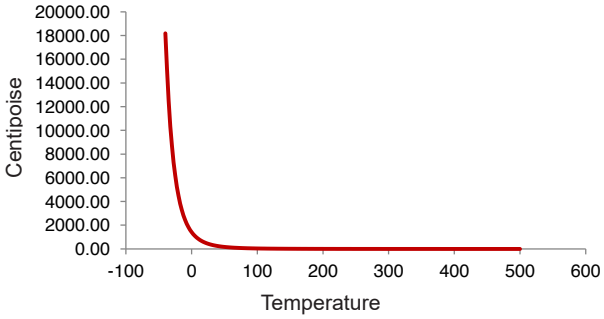
Kinematic Viscosity



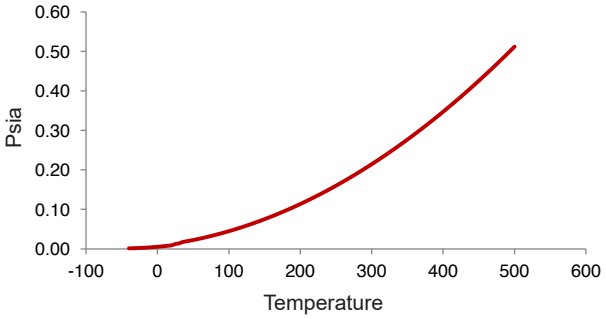
Heat Capacity



Dynamic Viscosity



Vapor Pressure



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PAG Heat Transfer Fluid

Temperature (°F)	Density (lb/ft^3)	Kinematic Viscosity (Centistoke)	Dynamic Viscosity (Centipoise)	Thermal Conductivity (BTU/hr-F-ft)	Heat Capacity (BTU/lb-F)	Vapor Pressure (Psia)
-40	58.83	19283.44	18182.03	0.109	0.453	0.00
-35	58.78	13249.97	12482.78	0.109	0.454	0.00
-30	58.73	9273.42	8729.20	0.109	0.454	0.00
-25	58.68	6603.59	6210.87	0.109	0.455	0.00
-20	58.63	4779.58	4491.58	0.109	0.456	0.00
-15	58.58	3512.79	3298.37	0.109	0.456	0.00
-10	58.53	2619.29	2457.35	0.108	0.457	0.00
-5	58.48	1979.80	1855.84	0.108	0.458	0.00
0	58.43	1515.75	1419.66	0.108	0.459	0.01
5	58.39	1174.60	1099.22	0.108	0.459	0.01
10	58.34	920.69	860.88	0.108	0.460	0.01
15	58.29	729.50	681.54	0.108	0.461	0.01
20	58.24	583.94	545.08	0.108	0.461	0.01
25	58.19	471.95	440.17	0.107	0.462	0.01
30	58.14	384.93	358.71	0.107	0.463	0.01
35	58.09	316.68	294.86	0.107	0.463	0.02
40	58.04	262.67	244.37	0.107	0.464	0.02
45	57.99	219.56	204.09	0.107	0.465	0.02
50	57.95	184.88	171.71	0.107	0.465	0.02
55	57.90	156.76	145.47	0.106	0.466	0.02
60	57.85	133.80	124.06	0.106	0.467	0.03
65	57.80	114.92	106.46	0.106	0.467	0.03
70	57.75	99.29	91.91	0.106	0.468	0.03
75	57.70	86.27	79.79	0.106	0.469	0.03
80	57.65	75.36	69.64	0.106	0.470	0.04
85	57.60	66.17	61.09	0.105	0.470	0.04
90	57.55	58.38	53.86	0.105	0.471	0.04
95	57.50	51.75	47.69	0.105	0.472	0.04
100	57.46	46.07	42.42	0.105	0.472	0.04
105	57.41	41.18	37.89	0.105	0.473	0.05
110	57.36	36.96	33.98	0.105	0.474	0.05
115	57.31	33.30	30.58	0.105	0.474	0.05
120	57.26	30.10	27.63	0.104	0.475	0.06
125	57.21	27.31	25.04	0.104	0.476	0.06
130	57.16	24.86	22.78	0.104	0.476	0.06
135	57.11	22.70	20.78	0.104	0.477	0.07
140	57.06	20.79	19.01	0.104	0.478	0.07
145	57.01	19.09	17.44	0.104	0.479	0.07

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Temperature (°F)	Density (lb/ft^3)	Kinematic Viscosity (Centistoke)	Dynamic Viscosity (Centipoise)	Thermal Conductivity (BTU/hr-F-ft)	Heat Capacity (BTU/lb-F)	Vapor Pressure (Psia)
150	56.97	17.58	16.05	0.103	0.479	0.08
155	56.92	16.23	14.81	0.103	0.480	0.08
160	56.87	15.02	13.69	0.103	0.481	0.08
165	56.82	13.94	12.69	0.103	0.481	0.09
170	56.77	12.96	11.79	0.103	0.482	0.09
175	56.72	12.08	10.98	0.103	0.483	0.09
180	56.67	11.28	10.24	0.102	0.483	0.10
185	56.62	10.55	9.58	0.102	0.484	0.10
190	56.57	9.89	8.97	0.102	0.485	0.11
195	56.53	9.29	8.42	0.102	0.485	0.11
200	56.48	8.74	7.91	0.102	0.486	0.11
205	56.43	8.24	7.45	0.102	0.487	0.12
210	56.38	7.77	7.03	0.102	0.488	0.12
215	56.33	7.35	6.64	0.101	0.488	0.13
220	56.28	6.96	6.28	0.101	0.489	0.13
225	56.23	6.60	5.95	0.101	0.490	0.14
230	56.18	6.26	5.64	0.101	0.490	0.14
235	56.13	5.96	5.36	0.101	0.491	0.15
240	56.08	5.67	5.10	0.101	0.492	0.15
245	56.04	5.40	4.85	0.100	0.492	0.16
250	55.99	5.16	4.63	0.100	0.493	0.16
255	55.94	4.92	4.42	0.100	0.494	0.17
260	55.89	4.71	4.22	0.100	0.494	0.17
265	55.84	4.51	4.04	0.100	0.495	0.18
270	55.79	4.32	3.86	0.100	0.496	0.18
275	55.74	4.15	3.70	0.099	0.496	0.19
280	55.69	3.98	3.55	0.099	0.497	0.19
285	55.64	3.83	3.41	0.099	0.498	0.20
290	55.60	3.68	3.28	0.099	0.499	0.20
295	55.55	3.54	3.15	0.099	0.499	0.21
300	55.50	3.41	3.04	0.099	0.500	0.21
305	55.45	3.29	2.93	0.098	0.501	0.22
310	55.40	3.18	2.82	0.098	0.501	0.23
315	55.35	3.07	2.72	0.098	0.502	0.23
320	55.30	2.97	2.63	0.098	0.503	0.24
325	55.25	2.87	2.54	0.098	0.503	0.24
330	55.20	2.78	2.46	0.098	0.504	0.25
335	55.15	2.69	2.38	0.098	0.505	0.26

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340	55.11	2.61	2.30	0.097	0.505	0.26
345	55.06	2.53	2.23	0.097	0.506	0.27
350	55.01	2.45	2.16	0.097	0.507	0.28
355	54.96	2.38	2.10	0.097	0.508	0.28
360	54.91	2.31	2.04	0.097	0.508	0.29
365	54.86	2.25	1.98	0.097	0.509	0.30
370	54.81	2.19	1.92	0.096	0.510	0.30
375	54.76	2.13	1.87	0.096	0.510	0.31
380	54.71	2.07	1.82	0.096	0.511	0.32
385	54.66	2.02	1.77	0.096	0.512	0.33
390	54.62	1.97	1.72	0.096	0.512	0.33
395	54.57	1.92	1.68	0.096	0.513	0.34
400	54.52	1.87	1.63	0.095	0.514	0.35
405	54.47	1.82	1.59	0.095	0.514	0.35
410	54.42	1.78	1.55	0.095	0.515	0.36
415	54.37	1.74	1.52	0.095	0.516	0.37
420	54.32	1.70	1.48	0.095	0.517	0.38
425	54.27	1.66	1.44	0.095	0.517	0.39
430	54.22	1.62	1.41	0.095	0.518	0.39
435	54.18	1.59	1.38	0.094	0.519	0.40
440	54.13	1.55	1.35	0.094	0.519	0.41
445	54.08	1.52	1.32	0.094	0.520	0.42
450	54.03	1.49	1.29	0.094	0.521	0.43
455	53.98	1.46	1.26	0.094	0.521	0.43
460	53.93	1.43	1.24	0.094	0.522	0.44
465	53.88	1.40	1.21	0.093	0.523	0.45
470	53.83	1.38	1.19	0.093	0.523	0.46
475	53.78	1.35	1.16	0.093	0.524	0.47
480	53.73	1.32	1.14	0.093	0.525	0.48
485	53.69	1.30	1.12	0.093	0.525	0.49
490	53.64	1.28	1.10	0.093	0.526	0.49
495	53.59	1.25	1.08	0.092	0.527	0.50
500	53.54	1.23	1.06	0.092	0.528	0.51

CALDERA
HEAT TRANSFER FLUIDS

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