

# Caldera 6

PAG Heat Transfer Fluid



CALDERA  
HEAT TRANSFER FLUIDS



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 oxidatively 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	--

Fluid properties are typical results and should not serve as a sole resource for determining the correct fluid for a particular application. Please consult an Isel representative to ensure that the product is the correct choice for the application. Revised 11/2017 - M

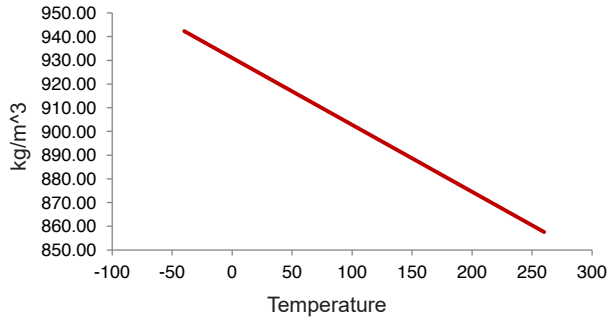
toll-free: 1-800-503-9533  
phone: 904-378-3232

email: [sales@iselinc.com](mailto:sales@iselinc.com)  
web: [www.calderafluids.com](http://www.calderafluids.com)

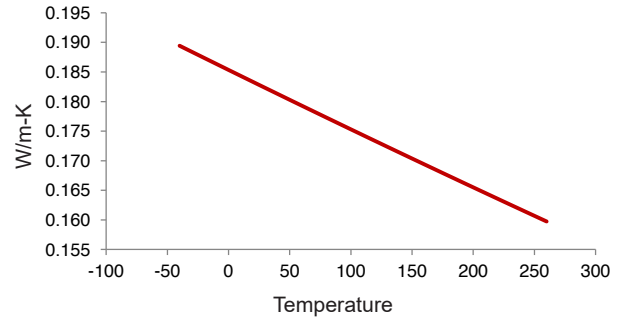
# Caldera 6

## PAG Heat Transfer Fluid

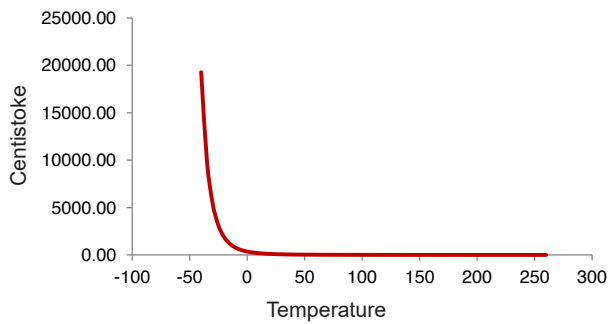
### Density



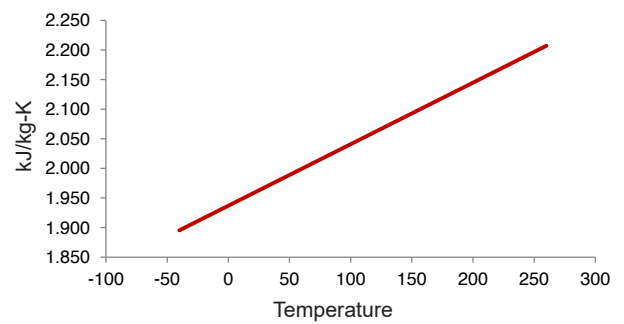
### Thermal Conductivity



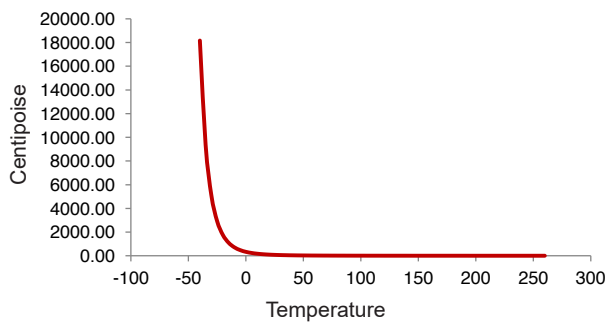
### Kinematic Viscosity



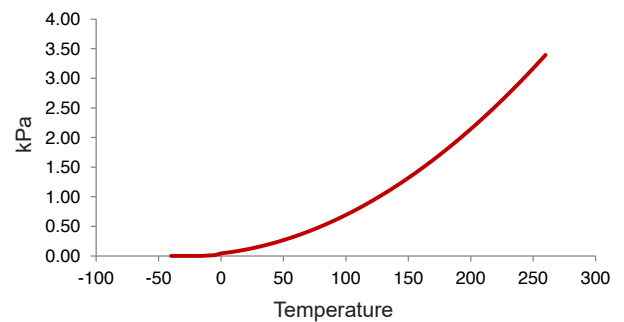
### Heat Capacity



### Dynamic Viscosity



### Vapor Pressure



Fluid properties are typical results and should not serve as a sole resource for determining the correct fluid for a particular application. Please consult an Isel representative to ensure that the product is the correct choice for the application. Revised 11/2017 - M

# Caldera 6

## PAG Heat Transfer Fluid



Temperature (°C)	Density (kg/m <sup>3</sup> )	Kinematic Viscosity (Centistoke)	Dynamic Viscosity (Centipoise)	Thermal Conductivity (W/m-K)	Heat Capacity (kJ/kg-K)	Vapor Pressure (kPa)
-40	942.31	19283.44	18170.94	0.189	1.895	0.00
-35	940.90	9945.32	9357.52	0.189	1.901	0.00
-30	939.48	5429.06	5100.52	0.188	1.906	0.00
-25	938.07	3118.41	2925.30	0.188	1.911	0.00
-20	936.66	1874.94	1756.18	0.187	1.916	0.00
-15	935.25	1174.60	1098.55	0.187	1.921	0.00
-10	933.84	763.63	713.10	0.186	1.927	0.01
-5	932.43	513.33	478.64	0.186	1.932	0.01
0	931.01	355.66	331.13	0.185	1.937	0.04
5	929.60	253.26	235.43	0.185	1.942	0.06
10	928.19	184.88	171.60	0.184	1.947	0.07
15	926.78	138.04	127.93	0.184	1.953	0.09
20	925.37	105.20	97.35	0.183	1.958	0.11
25	923.96	81.68	75.47	0.183	1.963	0.13
30	922.54	64.51	59.51	0.182	1.968	0.15
35	921.13	51.75	47.66	0.182	1.973	0.18
40	919.72	42.10	38.72	0.181	1.979	0.21
45	918.31	34.70	31.87	0.181	1.984	0.24
50	916.90	28.94	26.54	0.180	1.989	0.27
55	915.49	24.40	22.34	0.180	1.994	0.30
60	914.07	20.79	19.00	0.179	1.999	0.34
65	912.66	17.87	16.31	0.179	2.005	0.37
70	911.25	15.49	14.11	0.178	2.010	0.41
75	909.84	13.53	12.31	0.178	2.015	0.45
80	908.43	11.91	10.82	0.177	2.020	0.50
85	907.02	10.55	9.57	0.177	2.025	0.54
90	905.60	9.41	8.52	0.176	2.031	0.59
95	904.19	8.43	7.62	0.176	2.036	0.64
100	902.78	7.60	6.86	0.175	2.041	0.69
105	901.37	6.88	6.20	0.175	2.046	0.75
110	899.96	6.26	5.64	0.174	2.051	0.80
115	898.55	5.72	5.14	0.174	2.057	0.86
120	897.13	5.25	4.71	0.173	2.062	0.92
125	895.72	4.84	4.33	0.173	2.067	0.98
130	894.31	4.47	4.00	0.172	2.072	1.04
135	892.90	4.15	3.70	0.172	2.077	1.11
140	891.49	3.86	3.44	0.171	2.083	1.18
145	890.08	3.60	3.20	0.171	2.088	1.25

Fluid properties are typical results and should not serve as a sole resource for determining the correct fluid for a particular application. Please consult an Isel representative to ensure that the product is the correct choice for the application. Revised 11/2017 - M

# Caldera 6

## PAG Heat Transfer Fluid



Temperature (°C)	Density (kg/m <sup>3</sup> )	Kinematic Viscosity (Centistoke)	Dynamic Viscosity (Centipoise)	Thermal Conductivity (W/m-K)	Heat Capacity (kJ/kg-K)	Vapor Pressure (kPa)
150	888.66	3.36	2.99	0.170	2.093	1.32
155	887.25	3.15	2.80	0.170	2.098	1.39
160	885.84	2.97	2.63	0.169	2.103	1.47
165	884.43	2.79	2.47	0.169	2.109	1.54
170	883.02	2.64	2.33	0.168	2.114	1.62
175	881.61	2.50	2.20	0.168	2.119	1.70
180	880.19	2.37	2.08	0.167	2.124	1.79
185	878.78	2.25	1.98	0.167	2.129	1.87
190	877.37	2.14	1.88	0.166	2.135	1.96
195	875.96	2.04	1.79	0.166	2.140	2.05
200	874.55	1.95	1.70	0.166	2.145	2.14
205	873.14	1.86	1.62	0.165	2.150	2.24
210	871.72	1.78	1.55	0.165	2.155	2.33
215	870.31	1.71	1.49	0.164	2.161	2.43
220	868.90	1.64	1.42	0.164	2.166	2.53
225	867.49	1.57	1.37	0.163	2.171	2.63
230	866.08	1.52	1.31	0.163	2.176	2.73
235	864.66	1.46	1.26	0.162	2.181	2.84
240	863.25	1.41	1.22	0.162	2.187	2.95
245	861.84	1.36	1.17	0.161	2.192	3.06
250	860.43	1.31	1.13	0.161	2.197	3.17
255	859.02	1.27	1.09	0.160	2.202	3.28
260	857.61	1.23	1.06	0.160	2.207	3.40



5266 Highway Avenue  
Jacksonville, FL 32254  
USA

toll-free: 1-800-503-9533  
phone: 904-378-3232  
fax: 904-378-9696

email: [sales@iselinc.com](mailto:sales@iselinc.com)  
web: [www.calderafluids.com](http://www.calderafluids.com)

Fluid properties are typical results and should not serve as a sole resource for determining the correct fluid for a particular application. Please consult an Isel representative to ensure that the product is the correct choice for the application. Revised 11/2017 - M

All products manufactured in the USA