PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME **AVIATIONEU NEW ERA Synthetic Organic Heat Transfer Fluid 59**
PRODUCT USE Industrial applications
PRODUCT CODE **AVEUNE-HTF-59**

BRIEF PRODUCT DESCRIPTION

Thermal fluids (also known as thermal oils, thermic fluids, thermo fluids, heat transfer fluids/oils, hot oils, thermic oils or thermo oils.) are specialized liquids used to transfer heat from one point to another in various industrial processes. Sourced from quality producers Heat Transfer fluids (HTF) are offered as part of our own labelled (**AVIATIONEU NEW ERA**) product lines and consist cost-effective alternatives to well-known brands such as Eastman (Therminol® /Marlotherm®), Dow Chemical (Dowtherm™), ExxonMobil (Mobiltherm™), and others. Based on different blends, they can be used for heating and cooling processes in a variety of industrial applications resulting in economy, efficient operations, minimum maintenance, and precise temperature control. Indicative industries of their application include hydrocarbon processing (oil and gas, natural gas, refining, etc.), plastics processing, chemical processing, pharmaceuticals, food & beverage processing, renewable energies and many others.

AVIATIONEU NEW ERA HTF-59 is a high-performance 100 % synthetic heat transfer fluid specially developed for cooling and heating purposes. It is chemically equivalent to Eastman Therminol® 59 and features excellent low temperature pumpability and outstanding thermal stability. It can be used as a single fluid for heating and cooling in non-pressurized closed heat transfer systems with an operating temperature range from -50 to 320 in liquid phase. It can replace water-glycon solutions in solar heating and solar power systems. Most suitable for pharmaceutical industries where very low and high temperature is obtained with a single fluid. Offered mostly in 210-liter drums.

210-Liter Drum

TYPICAL PROPERTIES

Appearance: Clear colorless to Light Yellow liquid
Kinematic Viscosity (40 ºC): 4+-0.4 cSt
Max. Bulk Temperature: 280 ºC
Max. Film Temperature: 300 ºC
Pour Point: well below -70 ºC
Specific Gravity (20 ºC): 0.86
Auto Ignition Temperature: above 325 ºC
Normal Boiling Point: 294 ºC
Flash Point: 140 ºC
Moisture Content: below 150 ppm
Coefficient of Thermal Expansion: 0.00107/ ºC

Temperature	Density	Specific Heat	Thermal Conductivity	Kinematic Viscosity	Vapour Pressure
°C	Kg/m^3	kJ/Kg °K	W/m·K	cSt	kPa
-50	909	1.640	0.134	500	-
-40	902	1.680	0.132	214	-
-30	895	1.720	0.131	90	-
-20	888	1.760	0.130	43	-
-10	881	1.800	0.129	24	-
0	875	1.840	0.127	15	-
10	868	1.880	0.126	10	-
20	861	1.910	0.125	7	-
30	854	1.950	0.124	5.1	-
40	847	1.990	0.122	3.99	-
50	840	2.030	0.121	3.14	-
60	833	2.070	0.120	2.54	-
70	826	2.100	0.118	2.11	-
80	819	2.140	0.117	1.78	-
90	812	2.180	0.116	1.54	-
100	805	2.210	0.114	1.35	-
110	798	2.250	0.113	1.21	-
120	791	2.290	0.111	1.07	-
130	784	2.320	0.110	0.96	-
140	776	2.360	0.109	0.87	1
150	769	2.390	0.107	0.79	2
160	762	2.420	0.106	0.73	2
170	754	2.460	0.104	0.67	3
180	747	2.490	0.103	0.62	4
190	739	2.540	0.101	0.58	6
200	731	2.570	0.098	0.54	8
210	723	2.600	0.097	0.50	12
220	715	2.630	0.095	0.48	16
230	707	2.670	0.094	0.46	21
240	697	2.700	0.092	0.42	28
250	689	2.730	0.090	0.39	37
260	680	2.760	0.088	0.38	47
270	671	2.790	0.087	0.36	59
280	662	2.820	0.085	0.33	74

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