WINZZOL®
PETROCHEMICALS PVT LTD

EUROTHERM® 660

High temperature Synthetic Thermic Fluid
with Highest Thermal Stability

Temperature Range

-3°C to 350°C | -23°F to 650°F

1985
BCR
Bochar
Carbon Removal
Technology

ABOUT **PRODUCT**

EUROTHERM 660 is a tested and reliable synthetic organic heat transfer fluid, formulated with modified hydrogenated terphenyl and high-quality synthetic additives for optimal performance.

TYPICAL **PROPERTIES**

Appearance	Clear slight yellow liquid
Composition	Modified hydrogenated terphenyl
Maximum bulk temperature	350°C (662°F)
Maximum film temperature	381°C (717°F)
Kinematic viscosity at 100°C (ASTM D-445)	3.7 to 4 mm2/s (cSt)
Kinematic viscosity at 40°C (ASTM D-445)	30 to 31 mm2/s (cSt)
Flash point, COC (ASTM D-92)	186°C (367°F)
Pour point (ISO 3016)	-25°C (-13°F)
Normal boiling point	359°C (678°F)
Auto ignition temperature (ASTM E-659)	385°C (725°F)
Pumpability, at 300 mm2/s (cSt)	11°C (52°F)
Moisture content (PPM)	Maximum 122
Coefficient of thermal expansion at 100°C	0.000819/°C (0.000455/°F)
Liquid density at 25°C (ASTM D-4052)	1005 kg/m3 (8.40 lb/gal)
Copper Corrosion	<1
Pseudocritical temperature in ‘C (Z factor chart)	570
Pseudocritical pressure in bar	25
Pseudocritical density in kg/m3	317

“The property mentioned here is based on the tested sample and may vary slightly across different samples.”

KEY ADVANTAGES OF EUROTHERM 660

01 **Highest Thermal Stability at High Temperature**

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02 **Eurotherm 660 is Highest Thermaly stable fluid at high temperature of 350'C.**

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03 **Highest Thermal stability and Anti Oxidation technology**

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04 **BCR Technology Create Turbulent Flow to Remove Carbon from the Fluid:** While operation & give a sustainable lifelong quality and longest life of the fluid.

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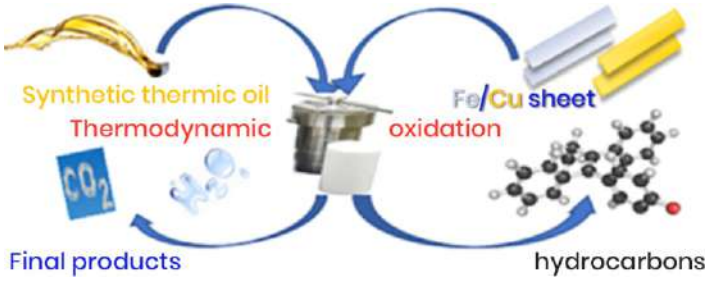
05 **Low Viscosity with Desire Thermal Conductivity Ensure Lowest Pumping Energy use and Highest Heat Transfer Ratio.**

Highest Thermal Stability and Anti Oxidation Technology



BCR Technology Create Turbulent Flow to Remove Carbon from the Fluid

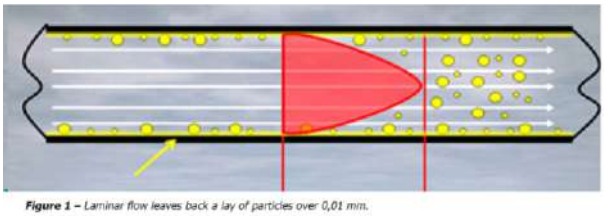


Figure 1 – Laminar flow leaves back a lay of particles over 0,01 mm.

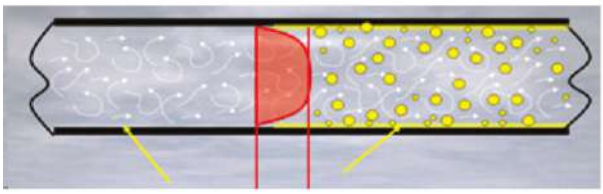


Figure 2 – Turbulent flow leaves back a lay of particles under 0,001 mm.

ADVANTAGES OF **LOW VISCOSITY FLUIDS**

Low Viscosity Fluids enhance thermal conductivity by promoting turbulent flow in heat transfer systems. This turbulence increases the heat transfer ratio while minimizing pumping energy use, resulting in efficient thermal management.

APPLICATION **METHOD & INDUSTRIES**

Indirect close loop Thermic Fluid Heater up to **320°C** Temperature.

Textile Industries	Waste Oil Recovery
Ethanol Industries	Bio Diesel
Chemical Industries	Oil Refinery
Plastic Industries	And many more.

PROPERTIES AT CERTAIN TEMPERATURE

Temperature	Liquid Density	Liquid Heat Capacity	Heat of Vaporisation	Liquid Enthalpy[b]	Thermal Conductivity	Liquid Viscosity		Vapor Pressure[d]
°C	kg/m^3	kj/kg°K	kJ/kg	kJ/kg	W/(m·K)	cP (mPa·s)	cSt (mm^2/s)	kPa
-3	1,026	1.490	419.2	22.0	0.121	2,014	1,970	-
0	1,024	1.520	418.0	26.2	0.121	1,300	1,284	-
10	1,022	1.550	413.8	41.6	0.120	340	332	-
20	1,014	1.600	409.4	57.4	0.120	122	120	-
30	1,006	1.640	404.5	73.2	0.120	54.70	54.60	-
40	1,002	1.660	400.0	89.4	0.119	29.10	29.20	-
50	994	1.700	395.6	106.0	0.119	17.30	17.50	-
60	985	1.750	391.4	123.2	0.118	11.20	11.40	-
70	980	1.790	387.3	140.4	0.118	7.850	8.100	0.010
80	974	1.820	383.0	158.1	0.117	5.820	6.030	0.017
90	966	1.850	378.8	176.2	0.117	4.490	4.660	0.030
100	960	1.900	374.5	194.5	0.116	3.560	3.710	0.048
110	952	1.910	370.7	213.2	0.116	2.880	3.030	0.075
120	946	1.960	366.8	232.3	0.115	2.370	2.520	0.118
130	938	2.000	363.0	251.8	0.114	2.010	2.160	0.180
140	933	2.040	359.2	271.6	0.114	1.720	1.850	0.267
150	926	2.070	355.1	291.7	0.113	1.500	1.630	0.396
160	918	2.100	351.4	312.2	0.112	1.310	1.440	0.572
170	912	2.150	347.6	333.0	0.111	1.170	1.280	0.819
180	904	2.180	343.9	354.4	0.110	1.040	1.140	1.160
190	896	2.220	340.6	376.1	0.109	0.940	1.030	1.602
200	888	2.260	336.2	398.0	0.108	0.850	0.960	2.210
210	881	2.310	332.4	420.3	0.107	0.770	0.880	2.990
220	874	2.340	328.6	442.9	0.106	0.710	0.810	4.022
230	868	2.370	324.8	466.2	0.105	0.650	0.760	5.340
240	860	2.400	321.0	489.6	0.104	0.600	0.700	7.030
250	852	2.450	316.8	513.4	0.103	0.560	0.660	9.160
260	844	2.480	312.0	537.7	0.102	0.520	0.620	11.900
270	836	2.520	308.9	562.3	0.101	0.490	0.590	15.100
280	828	2.560	304.6	587.2	0.099	0.460	0.560	19.400
290	822	2.600	300.5	612.6	0.098	0.430	0.530	24.300
300	812	2.650	296.0	638.4	0.097	0.410	0.500	30.200
310	804	2.690	291.7	664.5	0.096	0.390	0.470	37.800
320	795	2.730	287.2	691.0	0.095	0.370	0.460	46.600
330	786	2.780	282.4	717.8	0.094	0.360	0.440	57.400
340	779	2.800	277.5	745.4	0.093	0.330	0.420	70.000
350	770	2.840	272.8	773.2	0.092	0.320	0.410	84.700
360	762	2.890	267.2	801.0	0.090	0.300	0.400	103
370	751	2.930	262.0	829.6	0.088	0.290	0.394	122

LIFETIME **CARING PARTNER**

Our highly experienced team is committed to providing comprehensive support tailored to your needs. We offer:

LCP
LIFETIME CARING PARTNER

Start-up Guidance

Expert assistance to ensure a smooth initial setup.

Operational Training

Customized training programs to equip your team with essential skills.

Sample Testing and Analysis

In-depth testing services to evaluate fluid performance and ensure quality.

Safety Awareness Training

Programs designed to promote safety and compliance in all operations.

System Selection and Pipeline Design Support

Expert advice to help you choose the right system & optimize pipeline design.

Fluid Flushing & Refill Support

Efficient services to maintain system performance and fluid integrity.

With our support, you can optimize operations and enhance safety and efficiency in your processes.

ABOUT WINZZOL

WINZZOL's EUROTHERM “HEAT TRANSFER FLUIDS” are expertly engineered for the efficient indirect transfer of process heat across various applications. These fluids excel in both single- and multiple-station heat-using systems, providing exceptional thermal stability throughout a wide temperature range.

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