WINZZOL®
PETROCHEMICALS PVT LTD

EUROTHERM® 620

Trusted White Silicon Base High Temperature Semi Synthetic Thermic Fluid

Temperature Range

-10°C to 300°C | -14°F to 572°F

1985
BCR
Bochar Carbon Removal Technology

ABOUT PRODUCT

EUROTHERM 620 is high thermally stable most trusted Thermic fluid in the world. Engineered with Worlds most successful **Bochar carbon removal (BCR) Technology and used world's most valuable imported additives in formulation.**

TYPICAL PROPERTIES

Appearance	Clear slight yellow liquid
Composition	Formulated synthetic hydrocarbons
Recommended bulk temperature	300°C (572°F)
Maximum extended use temperature	300°C (572°F)
Maximum film temperature	325°C (617°F)
Normal boiling point	354°C (664°F)
Pumpability, at 300 mm²/s (cSt)	–8°C (17°F)
Flash point, COC (ASTM D92)(Open loop)	175°C to 347°C
Autoignition temperature (ASTM E659)	360°C (680°F)
Autoignition temperature (DIN 51794)	371°C (700°F)
Pour point (ISO 3016)	–32°C (–25.6°F)
Coefficient of thermal expansion @ 200°C	0.000978/°C
Heat of vaporization at maximum use temperature	228 kJ/kg (98.1 Btu/lb)
Average molecular weight	310
Pseudocritical temperature	490°C (914°F)
Pseudocritical pressure	12 bar
Pseudocritical density	250 kg/m3
Moisture content, maximum (ASTM E203)	50 to 80 ppm

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

KEY ADVANTAGES OF EUROTHERM 620

01 **Remarkable Heat Transfer Properties:** EUROTHERM® 550 excels in efficiently transferring heat, ensuring optimal thermal performance.

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02 **Accurate Temperature Control:** The fluid's ability to function effectively allows for precise temperature management for crucial demanding processes.

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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.**

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06 **Selective Synthetic Additives Formulation Ensure a Long Life and High Thermal Conductivity.**

APPLICATION **METHOD & INDUSTRIES**

Indirect close loop Thermic Fluid Heater up to **300°C** Temperature.

Food & Beverages Industry	Lubricants & Greece Manufacturing
Plywood & Laminate Industry	Asphalt Industries
Textile Industries	Bio Diesel Process
Rubber Processing Industries	Biomass - ORC
Marine, Oil and Gas Refinery	Cement - Waste Heat Recovery + ORC
Paint & Resin	Desalination
Chemical Processing	Gas to Liquid (GTL)
Pharma Process Industry	HTF - Production of Bio Alcohol
Plastic and Polymer	HTF - Production of Bio Diesel
Solar Systems Manufacturing	Hot Mix Asphalt
Heat Transfer Fluid Processing	Natural Gas Purification
Yan Processing	And many more.

PROPERTIES AT CERTAIN TEMPERATURE

Temperature		Liquid Density	Liquid Heat Capacity	Heat of Vaporization	Liquid Enthalpy[b]	Liquid Enthalpy[b]	Liquid Viscosity[c]		Vapor Pressure[d]
°C	°F	kg/m^3	kJ/(kg·K)	kJ/kg	kJ/kg	W/(m·K)	cP (mPa·s)	cSt (mm^2/s)	kPa
-28	-18	905	1.74	417	−19	0.1340	1820	2012	-
-20	-4	898	1.75	412	-4	0.1332	755	840	-
-10	14	891	1.80	406	14	0.1318	310	346	-
0	32	885	1.84	398	32	0.1306	142	162	-
10	50	878	1.88	391	50	0.1296	74	84	-
20	68	872	1.92	384	69	0.1284	42	48	-
30	86	865	1.94	377	89	0.1273	25	29.4	-
40	104	858	1.98	371	108	0.1262	16	19	-
50	122	852	2.00	365	128	0.1250	11	13.2	-
60	140	845	2.05	358	148	0.1238	7.94	9.38	-
70	158	838	2.08	352	169	0.1226	5.90	7.02	-
80	176	831	2.12	346	190	0.1214	4.52	5.44	0.010
90	194	825	2.16	340	212	0.1202	3.56	4.32	0.018
100	212	818	2.19	334	233	0.1190	2.88	3.52	0.032
110	230	811	2.23	328	255	0.1179	2.38	2.94	0.054
120	248	804	2.26	322	278	0.1168	2.00	2.48	0.087
130	266	797	2.30	316	300	0.1156	1.72	2.15	0.140
140	284	790	2.34	310	324	0.1144	1.48	1.88	0.218
150	302	784	2.36	305	347	0.1134	1.30	1.65	0.334
160	320	777	2.40	299	371	0.1120	1.14	1.47	0.500
170	338	770	2.44	293	395	0.1109	1.00	1.32	0.738
180	356	762	2.47	288	420	0.1098	0.912	1.20	1.07
190	374	756	2.51	282	445	0.1086	0.825	1.08	1.52
200	392	748	2.54	277	470	0.1074	0.750	1.00	2.15
210	410	741	2.58	271	496	0.1062	0.682	0.920	2.98
220	428	734	2.62	266	522	0.1050	0.625	0.852	4.06
230	446	726	2.65	260	548	0.1038	0.574	0.790	5.52
240	464	719	2.68	255	575	0.1027	0.528	0.735	7.38
250	482	710	2.72	250	602	0.1016	0.488	0.686	9.76
260	500	704	2.75	244	629	0.1004	0.450	0.642	12.8
270	518	696	2.80	239	656	0.0992	0.418	0.600	16.6
280	536	688	2.83	233	685	0.0980	0.388	0.562	21.2
290	554	680	2.85	228	713	0.0968	0.360	0.528	27.1
300	572	672	2.90	223	742	0.0956	0.334	0.496	34.4
310	590	664	2.92	216	770	0.0944	0.312	0.468	43.2
320	608	654	2.96	212	800	0.0932	0.288	0.442	53.6

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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.

WINZZOL®
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