

Reference for the SCHULTZ S750 synthetic diathermic oil												
Temperature(°C)	Density(kg/m^3)			Coefficient of thermal conductivity(W/(m·K)			Specific Heat Capacity(J/(kg·K))			viscosity(Pa·s)		
	Original data	Fitting data	relative error	Original data	Fitting data	relative error	Original data	Fitting data	relative error	Original data	Fitting data	relative error
10	1015	1015	0.0%	0.1221	0.1221	0.0%	1530	1530	0.0%	4.393E-01		
20	1008	1008	0.0%	0.1212	0.1212	0.0%	1563	1563	0.0%	9.912E-02		
30	1001	1002	-0.1%	0.1203	0.1203	0.0%	1596	1596	0.0%	4.995E-02		
40	995	995	0.0%	0.1194	0.1194	0.0%	1630	1630	0.0%	3.022E-02		
50	988	988	0.0%	0.1185	0.1185	0.0%	1663	1663	0.0%	1.744E-02		
60	981	981	0.0%	0.1177	0.1176	0.1%	1697	1697	0.0%	1.160E-02		
70	975	975	0.0%	0.1168	0.1167	0.1%	1732	1732	0.0%	8.160E-03		
80	968	968	0.0%	0.1159	0.1158	0.1%	1766	1766	0.0%	6.010E-03		
90	961	961	0.0%	0.115	0.1149	0.1%	1801	1801	0.0%	4.600E-03		
100	955	954	0.1%	0.1141	0.1140	0.1%	1836	1836	0.0%	3.630E-03		
110	948	947	0.1%	0.1133	0.1131	0.1%	1871	1871	0.0%	2.940E-03		
120	941	940	0.1%	0.1124	0.1123	0.1%	1907	1907	0.0%	2.430E-03		
130	935	933	0.2%	0.1115	0.1114	0.1%	1942	1942	0.0%	2.050E-03		
140	928	926	0.2%	0.1106	0.1105	0.1%	1978	1979	0.0%	1.750E-03		
150	921	919	0.2%	0.1098	0.1096	0.2%	2015	2015	0.0%	1.520E-03		
160	910	912	-0.2%	0.1089	0.1087	0.2%	2051	2051	0.0%	1.330E-03		
170	903	905	-0.2%	0.108	0.1078	0.2%	2088	2088	0.0%	1.150E-03		
180	896	898	-0.2%	0.1071	0.1069	0.2%	2125	2125	0.0%	1.020E-03		
190	889	890	-0.1%	0.1062	0.1060	0.2%	2162	2163	0.0%	9.100E-04		
200	882	883	-0.1%	0.1054	0.1051	0.3%	2200	2200	0.0%	8.300E-04	8.279E-04	0.3%
210	875	875	-0.1%	0.1045	0.1042	0.2%	2238	2238	0.0%	7.500E-04	7.532E-04	-0.4%
220	868	868	0.0%	0.1036	0.1034	0.2%	2276	2276	0.0%	6.900E-04	6.901E-04	0.0%
230	861	860	0.1%	0.1027	0.1025	0.2%	2314	2315	0.0%	6.400E-04	6.367E-04	0.5%
240	854	853	0.1%	0.1019	0.1016	0.3%	2353	2353	0.0%	5.900E-04	5.912E-04	-0.2%
250	847	845	0.2%	0.101	0.1007	0.3%	2392	2392	0.0%	5.500E-04	5.520E-04	-0.4%
260	840	837	0.3%	0.1001	0.0998	0.3%	2431	2431	0.0%	5.200E-04	5.179E-04	0.4%
270	828	829	-0.2%	0.0992	0.0989	0.3%	2470	2471	0.0%	4.900E-04	4.877E-04	0.5%
280	821	821	-0.1%	0.0983	0.0980	0.3%	2510	2510	0.0%	4.600E-04	4.605E-04	-0.1%
290	814	813	0.1%	0.0975	0.0971	0.4%	2550	2550	0.0%	4.400E-04	4.355E-04	1.0%
300	806	805	0.1%	0.0966	0.0962	0.4%	2590	2591	0.0%	4.100E-04	4.124E-04	-0.6%
310	799	797	0.2%	0.0957	0.0953	0.4%	2630	2631	0.0%	3.900E-04	3.906E-04	-0.2%
320	792	789	0.4%	0.0948	0.0944	0.4%	2671	2672	0.0%	3.700E-04	3.703E-04	-0.1%
330	785	780	0.6%	0.094	0.0936	0.5%	2712	2713	0.0%	3.500E-04	3.514E-04	-0.4%
340	774	772	0.3%	0.0931	0.0927	0.5%	2753	2754	0.0%	3.400E-04	3.342E-04	1.7%
350	767	763	0.5%	0.0922	0.0918	0.5%	2795	2795	0.0%	3.200E-04	3.194E-04	0.2%
360	753	754	-0.2%	0.0913	0.0909	0.5%	2836	2837	0.0%	3.100E-04	3.075E-04	0.8%
370	746	746	0.1%	0.0904	0.0900	0.5%	2878	2879	0.0%	3.000E-04	2.996E-04	0.1%

