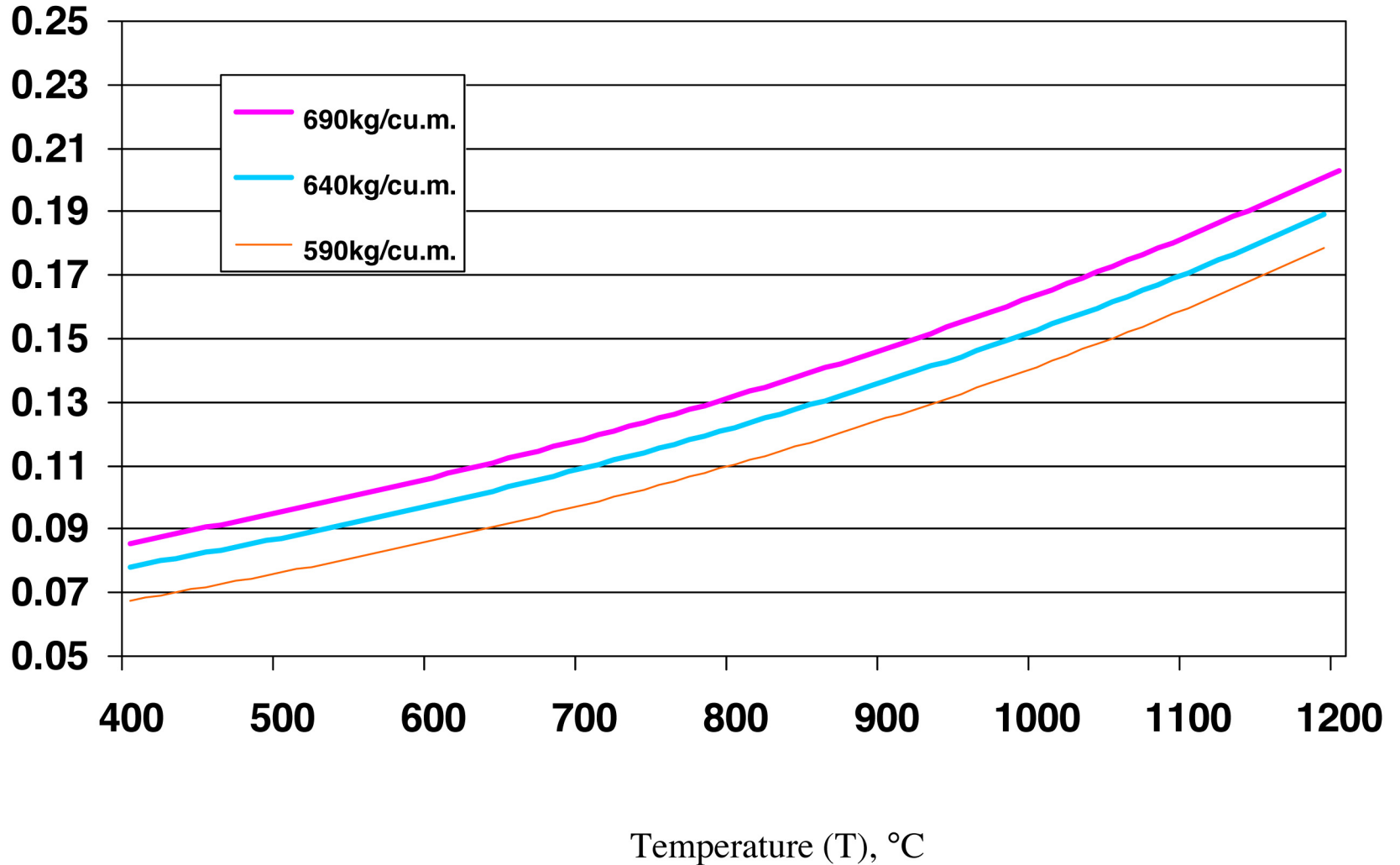


# Thermal Conductivity of Thermax Powder

Thermal Conductivity (k), W/mk



**THERMAL CONDUCTIVITY\* FOR THERMAX POWDER  
AS A FUNCTION OF TEMPERATURE AND PACKED DENSITY**

*Thermal Conductivity (k), W/mK*

Density (kg/m <sup>3</sup> )				Density (kg/m <sup>3</sup> )			
T (°C)	690	640	590	T (°C)	690	640	590
400	.0857	.0772	.0667	800	.1319	.1208	.1091
410	.0866	.0781	.0675	810	.1334	.1221	.1104
420	.0876	.0790	.0683	820	.1348	.1235	.1118
430	.0885	.0799	.0692	830	.1363	.1249	.1132
440	.0895	.0808	.0700	840	.1378	.1263	.1146
450	.0905	.0817	.0709	850	.1393	.1277	.1160
460	.0914	.0826	.0718	860	.1408	.1292	.1174
470	.0924	.0835	.0727	870	.1423	.1306	.1189
480	.0934	.0845	.0736	880	.1438	.1321	.1204
490	.0944	.0854	.0745	890	.1454	.1336	.1218
500	.0955	.0864	.0754	900	.1470	.1351	.1234
510	.0965	.0873	.0763	910	.1486	.1366	.1249
520	.0975	.0883	.0773	920	.1502	.1381	.1264
530	.0986	.0893	.0782	930	.1518	.1397	.1280
540	.0997	.0903	.0792	940	.1535	.1413	.1296
550	.1008	.0913	.0802	950	.1551	.1428	.1312
560	.1018	.0924	.0812	960	.1568	.1444	.1328
570	.1029	.0934	.0822	970	.1585	.1461	.1345
580	.1040	.0944	.0832	980	.1602	.1477	.1361
590	.1052	.0955	.0842	990	.1620	.1494	.1378
600	.1063	.0966	.0853	1000	.1637	.1511	.1395
610	.1075	.0977	.0863	1010	.1655	.1528	.1412
620	.1087	.0988	.0874	1020	.1673	.1545	.1430
630	.1098	.0999	.0885	1030	.1691	.1562	.1448
640	.1110	.1010	.0896	1040	.1709	.1580	.1466
650	.1122	.1021	.0907	1050	.1728	.1597	.1484
660	.1134	.1033	.0918	1060	.1747	.1615	.1502
670	.1147	.1044	.0929	1070	.1766	.1634	.1521
680	.1159	.1056	.0941	1080	.1785	.1652	.1539
690	.1172	.1068	.0953	1090	.1804	.1670	.1559
700	.1185	.1080	.0964	1100	.1824	.1689	.1578
710	.1197	.1092	.0976	1110	.1843	.1708	.1597
720	.1210	.1105	.0988	1120	.1863	.1727	.1617
730	.1223	.1117	.1001	1130	.1884	.1747	.1637
740	.1237	.1129	.1013	1140	.1904	.1767	.1657
750	.1250	.1142	.1026	1150	.1925	.1786	.1678
760	.1264	.1155	.1038	1160	.1946	.1806	.1699
770	.1277	.1168	.1051	1170	.1967	.1827	.1720
780	.1291	.1181	.1064	1180	.1988	.1847	.1741
790	.1305	.1194	.1077	1190	.2010	.1868	.1763
				1200	.2031	.1889	.1784

\* Calculated using the exponential relationship  $k = Ae^{BT}$ , where A and B are constants. Extrapolation of conductivity values beyond the temperatures and densities provided is not recommended.