

## Temperature Correlation Chart for BPCDs

*Place • Measure • Improve*

<b>Product Code:</b> BPCD-MT3.5	<b>Diameter:</b> 20mm
<b>Product Type:</b> BPCD Medium Temperature	<b>Nominal Thickness:</b> 3.5mm
<b>Temperature Range:</b> 1050°C - 1320°C	<b>Disc Colour:</b> Yellow

Disc Dia- meter mm	Disc Temp- erature °C	Disc Dia- meter mm	Disc Temp- erature °C	Disc Dia- meter mm	Disc Temp- erature °C	Disc Dia- meter mm	Disc Temp- erature °C	Disc Dia- meter mm	Disc Temp- erature °C	Disc Dia- meter mm	Disc Temp- erature °C
19.79	1050	19.51	1102	19.23	1164	18.95	1220	18.67	1282		
19.78	1053	19.50	1104	19.22	1166	18.94	1222	18.66	1284		
19.77	1056	19.49	1107	19.21	1168	18.93	1224	18.65	1287		
19.76	1058	19.48	1109	19.20	1170	18.92	1227	18.64	1289		
19.75	1060	19.47	1112	19.19	1171	18.91	1229	18.63	1292		
19.74	1061	19.46	1114	19.18	1173	18.90	1232	18.62	1294		
19.73	1063	19.45	1117	19.17	1175	18.89	1234	18.61	1296		
19.72	1065	19.44	1119	19.16	1177	18.88	1236	18.60	1298		
19.71	1066	19.43	1121	19.15	1179	18.87	1238	18.59	1300		
19.70	1068	19.42	1124	19.14	1181	18.86	1240	18.58	1301		
19.69	1070	19.41	1125	19.13	1183	18.85	1242	18.57	1303		
19.68	1071	19.40	1127	19.12	1185	18.84	1244	18.56	1305		
19.67	1073	19.39	1129	19.11	1187	18.83	1247	18.55	1306		
19.66	1075	19.38	1132	19.10	1189	18.82	1249	18.54	1308		
19.65	1077	19.37	1134	19.09	1191	18.81	1252	18.53	1310		
19.64	1079	19.36	1137	19.08	1193	18.80	1254	18.52	1311		
19.63	1081	19.35	1139	19.07	1195	18.79	1256	18.51	1313		
19.62	1083	19.34	1142	19.06	1196	18.78	1258	18.50	1315		
19.61	1085	19.33	1144	19.05	1198	18.77	1260	18.49	1316		
19.60	1086	19.32	1146	19.04	1200	18.76	1262	18.48	1317		
19.59	1088	19.31	1148	19.03	1202	18.75	1264	18.47	1319		
19.58	1090	19.30	1150	19.02	1204	18.74	1267	18.46	1320		
19.57	1091	19.29	1152	19.01	1207	18.73	1269				
19.56	1093	19.28	1154	19.00	1209	18.72	1272				
19.55	1095	19.27	1156	18.99	1212	18.71	1274				
19.54	1096	19.26	1158	18.98	1214	18.70	1276				
19.53	1098	19.25	1160	18.97	1216	18.69	1278				
19.52	1100	19.24	1162	18.96	1218	18.68	1280				

### NOTES

- 1) Bullers™ Process Control Discs (BPCDs) are specially manufactured to react to 'Heat Work' or 'Heat Energy' rather than temperature alone. 'Heat Work' is the effect of temperature, time and kiln loading on a ceramic product.
- 2) 'Disc Temperature' referred to in the above Temperature Correlation Chart is only **approximate** and acts as a guide to a kiln's peak firing temperature. 'Disc Temperature' is an easy and useful way to compare against historical results but is not necessarily the same as the actual kiln temperature.
- 3) Mantec Technical Ceramics recommend that customers always describe their kiln firings in terms of 'Disc Diameter' rather than 'Disc Temperature' in order to avoid confusion with true kiln temperatures measured by thermocouples.
- 4) Due to differing firing rates, soak times, air flow, kiln loadings and kiln atmospheres, the actual performance of BPCDs, when used by the customer, may be different from the above Temperature Correlation Chart, which Mantec Technical Ceramics have determined under strictly controlled firing conditions.