

3.5mm Bullers Disc (Type MT) - Approximate Temperatures

| Disc Diameter mm | Approximate Temperature °C | Disc Diameter mm | Approximate Temperature °C | Disc Diameter mm | Approximate Temperature °C |
|------------------|----------------------------|------------------|----------------------------|------------------|----------------------------|
| 19.90 | 1005 | 19.44 | 1120 | 18.91 | 1230 |
| 19.89 | 1010 | 19.41 | 1125 | 18.89 | 1235 |
| 19.88 | 1015 | 19.39 | 1130 | 18.86 | 1240 |
| 19.86 | 1020 | 19.37 | 1135 | 18.84 | 1245 |
| 19.85 | 1025 | 19.35 | 1140 | 18.82 | 1250 |
| 19.84 | 1030 | 19.33 | 1145 | 18.80 | 1255 |
| 19.83 | 1035 | 19.30 | 1150 | 18.77 | 1260 |
| 19.81 | 1040 | 19.28 | 1155 | 18.75 | 1265 |
| 19.80 | 1045 | 19.25 | 1160 | 18.73 | 1270 |
| 19.78 | 1050 | 19.23 | 1165 | 18.71 | 1275 |
| 19.75 | 1055 | 19.20 | 1170 | 18.68 | 1280 |
| 19.72 | 1060 | 19.17 | 1175 | 18.66 | 1285 |
| 19.69 | 1065 | 19.15 | 1180 | 18.64 | 1290 |
| 19.66 | 1070 | 19.12 | 1185 | 18.62 | 1295 |
| 19.64 | 1075 | 19.10 | 1190 | 18.59 | 1300 |
| 19.61 | 1080 | 19.07 | 1195 | 18.56 | 1205 |
| 19.58 | 1085 | 19.04 | 1200 | 18.53 | 1310 |
| 19.55 | 1095 | 19.02 | 1205 | 18.50 | 1315 |
| 19.52 | 1100 | 19.00 | 1210 | 18.46 | 1320 |
| 19.50 | 1105 | 18.98 | 1215 | | |
| 19.48 | 1110 | 18.95 | 1220 | | |
| 19.46 | 1115 | 18.93 | 1225 | | |

NOTES

Customers should note that Bullers Discs work in the same way as all other pyrometric devices, and do not measure temperature alone. They measure the effects of temperature, time and kiln loading on the heat treatment of materials, often called 'heat work'. It must be understood that the temperatures referred to in the table are approximate, and have been determined by Mantec Technical Ceramics under strictly controlled firing conditions of temperature rise and soak time at temperature. Different firing cycles will produce

different amounts of shrinkage, and therefore different gauge or diameter readings, for a given temperature.

We recommend that customers always describe their kiln firings in terms of diameter readings rather than by converting the reading to 'approximate temperature', and thus avoid any confusion with true temperature readings that are being measured by the thermocouple at that position in the kiln.

When recording the disc values it is important to record the type of disc used.

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