

Temperature Correlation Chart for BPCDs
Place • Measure • Improve

Product Code: BPCD-VHT3.5	Diameter: 20mm
Product Type: BPCD Very High Temperature	Nominal Thickness: 3.5mm
Temperature Range: 1500°C - 1770°C	Disc Colour: White

Disc Diameter mm	Disc Temperature °C	Disc Diameter mm	Disc Temperature °C	Disc Diameter mm	Disc Temperature °C	Disc Diameter mm	Disc Temperature °C	Disc Diameter mm	Disc Temperature °C	Disc Diameter mm	Disc Temperature °C
19.17	1500	18.87	1582	18.57	1632	18.27	1666	17.97	1700	17.67	1735
19.16	1502	18.86	1584	18.56	1634	18.26	1667	17.96	1701	17.66	1736
19.15	1504	18.85	1586	18.55	1635	18.25	1669	17.95	1702	17.65	1738
19.14	1508	18.84	1588	18.54	1636	18.24	1670	17.94	1704	17.64	1740
19.13	1512	18.83	1590	18.53	1637	18.23	1671	17.93	1705	17.63	1741
19.12	1514	18.82	1592	18.52	1639	18.22	1672	17.92	1706	17.62	1742
19.11	1518	18.81	1594	18.51	1640	18.21	1673	17.91	1707	17.61	1743
19.10	1522	18.80	1596	18.50	1641	18.20	1674	17.90	1709	17.60	1744
19.09	1524	18.79	1598	18.49	1642	18.19	1675	17.89	1710	17.59	1745
19.08	1527	18.78	1600	18.48	1643	18.18	1676	17.88	1711	17.58	1746
19.07	1529	18.77	1602	18.47	1644	18.17	1677	17.87	1712	17.57	1747
19.06	1533	18.76	1604	18.46	1645	18.16	1678	17.86	1713	17.56	1749
19.05	1537	18.75	1606	18.45	1646	18.15	1679	17.85	1714	17.55	1750
19.04	1539	18.74	1608	18.44	1647	18.14	1680	17.84	1715	17.54	1751
19.03	1542	18.73	1610	18.43	1648	18.13	1681	17.83	1716	17.53	1752
19.02	1544	18.72	1611	18.42	1649	18.12	1682	17.82	1717	17.52	1754
19.01	1547	18.71	1612	18.41	1650	18.11	1684	17.81	1718	17.51	1755
19.00	1549	18.70	1614	18.40	1651	18.10	1685	17.80	1719	17.50	1756
18.99	1552	18.69	1615	18.39	1652	18.09	1686	17.79	1720	17.49	1758
18.98	1554	18.68	1616	18.38	1653	18.08	1687	17.78	1721	17.48	1760
18.97	1557	18.67	1618	18.37	1654	18.07	1689	17.77	1723	17.47	1761
18.96	1559	18.66	1620	18.36	1655	18.06	1690	17.76	1725	17.46	1762
18.95	1562	18.65	1621	18.35	1656	18.05	1691	17.75	1726	17.45	1764
18.94	1564	18.64	1623	18.34	1658	18.04	1692	17.74	1727	17.44	1765
18.93	1567	18.63	1625	18.33	1660	18.03	1693	17.73	1729	17.43	1766
18.92	1569	18.62	1626	18.32	1661	18.02	1694	17.72	1730	17.42	1767
18.91	1572	18.61	1627	18.31	1662	18.01	1695	17.71	1731	17.41	1769
18.90	1574	18.60	1629	18.30	1663	18.00	1696	17.70	1732	17.40	1770
18.89	1577	18.59	1630	18.29	1664	17.99	1697	17.69	1733		
18.88	1579	18.58	1631	18.28	1665	17.98	1699	17.68	1734		

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.