BULLERS™
Process Control Discs

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Temperature Correlation Chart for BPCDs

Place • Measure • Improve

Product Code: BPCD-HT3.5
Product Type: BPCD High Temperature
Temperature Range: 1250°C - 1550°C

Diameter: 20mm
Nominal Thickness: 3.5mm
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
19.91	1249	19.51	1346	18.96	1388	18.51	1431	18.11	1472	17.70	1512
19.90	1253	19.50	1348	18.95	1389	18.50	1432	18.10	1473	17.69	1514
19.89	1256	19.49	1350	18.93	1390	18.49	1433	18.09	1474	17.68	1515
19.88	1259	19.48	1351	18.92	1391	18.48	1434	18.08	1475	17.67	1516
19.87	1262	19.46	1352	18.91	1392	18.47	1435	18.06	1476	17.66	1517
19.86	1265	19.45	1353	18.89	1393	18.46	1436	18.05	1477	17.65	1518
19.85	1268	19.44	1354	18.88	1394	18.45	1437	18.04	1478	17.64	1519
19.84	1271	19.42	1355	18.86	1395	18.44	1438	18.03	1479	17.63	1520
19.83	1274	19.41	1356	18.85	1396	18.43	1439	18.02	1480	17.62	1521
19.82	1277	19.39	1357	18.84	1397	18.42	1440	18.01	1481	17.61	1522
19.81	1280	19.38	1358	18.82	1398	18.41	1442	18.00	1482	17.60	1523
19.80	1284	19.37	1359	18.81	1399	18.40	1443	17.99	1483	17.59	1524
19.79	1287	19.35	1360	18.79	1400	18.39	1444	17.98	1484	17.58	1525
19.78	1290	19.34	1361	18.78	1401	18.38	1445	17.97	1485	17.57	1526
19.77	1293	19.32	1362	18.77	1403	18.37	1446	17.96	1486	17.56	1527
19.76	1296	19.31	1363	18.76	1404	18.36	1447	17.95	1487	17.55	1528
19.75	1299	19.30	1364	18.75	1405	18.35	1448	17.94	1488	17.54	1529
19.74	1301	19.28	1365	18.74	1406	18.34	1449	17.93	1489	17.53	1530
19.73	1303	19.27	1366	18.73	1407	18.33	1450	17.92	1490	17.52	1532
19.72	1305	19.25	1367	18.72	1408	18.32	1451	17.91	1491	17.51	1533
19.71	1307	19.24	1368	18.71	1409	18.31	1452	17.90	1492	17.50	1534
19.70	1309	19.23	1369	18.70	1410	18.30	1453	17.89	1493	17.49	1535
19.69	1311	19.21	1370	18.69	1411	18.29	1454	17.88	1494	17.48	1536
19.68	1313	19.20	1371	18.68	1412	18.28	1455	17.87	1495	17.47	1537
19.67	1315	19.18	1372	18.67	1413	18.27	1456	17.86	1496	17.46	1538
19.66	1317	19.17	1373	18.66	1414	18.26	1457	17.85	1497	17.45	1539
19.65	1319	19.16	1374	18.65	1416	18.25	1458	17.84	1498	17.44	1540
19.64	1321	19.14	1375	18.64	1417	18.24	1459	17.83	1499	17.43	1541
19.63	1323	19.13	1376	18.63	1418	18.23	1460	17.82	1500	17.42	1542
19.62	1325	19.12	1377	18.62	1419	18.22	1461	17.81	1501	17.41	1543
19.61	1327	19.10	1378	18.61	1420	18.21	1462	17.80	1502	17.40	1544
19.60	1329	19.09	1379	18.60	1421	18.20	1463	17.79	1503	17.39	1545
19.59	1331	19.07	1380	18.59	1422	18.19	1464	17.78	1504	17.38	1546
19.58	1332	19.06	1381	18.58	1423	18.18	1465	17.77	1505	17.37	1547
19.57	1334	19.05	1382	18.57	1424	18.17	1466	17.76	1506	17.36	1548
19.56	1336	19.03	1383	18.56	1425	18.16	1467	17.75	1507	17.35	1550
19.55	1338	19.02	1384	18.55	1426	18.15	1468	17.74	1508		
19.54	1340	19.00	1385	18.54	1427	18.14	1469	17.73	1509		
19.53	1342	18.99	1386	18.53	1429	18.13	1470	17.72	1510		
19.52	1344	18.98	1387	18.52	1430	18.12	1471	17.71	1511		

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.

August 2013

Made in the UK