

Resistance of basic heating Alloy materials.

| D(mm) | NI | NCHW-1 | NCHW-2 | CNW-1 | CNW-2 | CNW-3 | CNW-4 | CNW-5 | FeCr-1 | FeCr-2 |
|-------|---------|----------|----------|---------|---------|---------|---------|--------|----------|----------|
| 1.50 | 0.0509 | 0.6111 | 0.6338 | 0.2773 | 0.1674 | 0.0849 | 0.0566 | 0.0283 | 0.7924 | 0.6902 |
| 1.40 | 0.0585 | 0.7015 | 0.7276 | 0.3184 | 0.1922 | 0.0974 | 0.0650 | 0.0324 | 0.9097 | 0.7923 |
| 1.30 | 0.0678 | 0.8136 | 0.8438 | 0.3692 | 0.2229 | 0.1130 | 0.0754 | 0.0376 | 1.0550 | 0.9189 |
| 1.20 | 0.0796 | 0.9549 | 0.9903 | 0.4333 | 0.2616 | 0.1326 | 0.0885 | 0.0442 | 1.2382 | 1.0785 |
| 1.10 | 0.0947 | 1.1364 | 1.1785 | 0.5157 | 0.3113 | 0.1579 | 0.1053 | 0.0526 | 1.4736 | 1.2835 |
| 1.00 | 0.1146 | 1.3750 | 1.4260 | 0.6240 | 0.3767 | 0.1910 | 0.1274 | 0.0636 | 1.7830 | 1.5530 |
| 0.99 | 0.1169 | 1.4029 | 1.4550 | 0.6367 | 0.3843 | 0.1949 | 0.1300 | 0.0649 | 1.8192 | 1.5845 |
| 0.98 | 0.1193 | 1.4317 | 1.4848 | 0.6497 | 0.3922 | 0.1989 | 0.1327 | 0.0662 | 1.8565 | 1.6170 |
| 0.97 | 0.1218 | 1.4614 | 1.5156 | 0.6632 | 0.4004 | 0.2030 | 0.1354 | 0.0676 | 1.8950 | 1.6505 |
| 0.96 | 0.1243 | 1.4920 | 1.5473 | 0.6771 | 0.4087 | 0.2072 | 0.1382 | 0.0690 | 1.9347 | 1.6851 |
| 0.95 | 0.1270 | 1.5235 | 1.5801 | 0.6914 | 0.4174 | 0.2116 | 0.1412 | 0.0705 | 1.9756 | 1.7208 |
| 0.94 | 0.1297 | 1.5561 | 1.6139 | 0.7062 | 0.4263 | 0.2162 | 0.1442 | 0.0720 | 2.0179 | 1.7576 |
| 0.93 | 0.1325 | 1.5898 | 1.6487 | 0.7215 | 0.4355 | 0.2208 | 0.1473 | 0.0735 | 2.0615 | 1.7956 |
| 0.92 | 0.1354 | 1.6245 | 1.6848 | 0.7372 | 0.4451 | 0.2257 | 0.1505 | 0.0751 | 2.1066 | 1.8348 |
| 0.91 | 0.1384 | 1.6604 | 1.7220 | 0.7535 | 0.4549 | 0.2306 | 0.1538 | 0.0768 | 2.1531 | 1.8754 |
| 0.90 | 0.1415 | 1.6975 | 1.7605 | 0.7704 | 0.4651 | 0.2358 | 0.1573 | 0.0785 | 2.2012 | 1.9173 |
| 0.89 | 0.1447 | 1.7359 | 1.8003 | 0.7878 | 0.4756 | 0.2411 | 0.1608 | 0.0803 | 2.2510 | 1.9606 |
| 0.88 | 0.1480 | 1.7756 | 1.8414 | 0.8058 | 0.4864 | 0.2466 | 0.1645 | 0.0821 | 2.3024 | 2.0054 |
| 0.87 | 0.1514 | 1.8166 | 1.8840 | 0.8244 | 0.4977 | 0.2523 | 0.1683 | 0.0840 | 2.3557 | 2.0518 |
| 0.86 | 0.1549 | 1.8591 | 1.9281 | 0.8437 | 0.5093 | 0.2582 | 0.1723 | 0.0860 | 2.4108 | 2.0998 |
| 0.85 | 0.1586 | 1.9031 | 1.9737 | 0.8637 | 0.5214 | 0.2644 | 0.1763 | 0.0880 | 2.4678 | 2.1495 |
| 0.84 | 0.1624 | 1.9487 | 2.0210 | 0.8844 | 0.5339 | 0.2707 | 0.1806 | 0.0901 | 2.5269 | 2.2010 |
| 0.83 | 0.1664 | 1.9959 | 2.0700 | 0.9058 | 0.5468 | 0.2773 | 0.1849 | 0.0923 | 2.5882 | 2.2543 |
| 0.82 | 0.1704 | 2.0449 | 2.1208 | 0.9280 | 0.5602 | 0.2841 | 0.1895 | 0.0946 | 2.6517 | 2.3096 |
| 0.81 | 0.1747 | 2.0957 | 2.1734 | 0.9511 | 0.5742 | 0.2911 | 0.1942 | 0.0969 | 2.7176 | 2.3670 |
| 0.80 | 0.1791 | 2.1484 | 2.2281 | 0.9750 | 0.5886 | 0.2984 | 0.1991 | 0.0994 | 2.7859 | 2.4266 |
| 0.79 | 0.1836 | 2.2032 | 2.2849 | 0.9998 | 0.6036 | 0.3060 | 0.2041 | 0.1019 | 2.8569 | 2.4884 |
| 0.78 | 0.1884 | 2.2600 | 2.3439 | 1.0256 | 0.6192 | 0.3139 | 0.2094 | 0.1045 | 2.9306 | 2.5526 |
| 0.77 | 0.1933 | 2.3191 | 2.4051 | 1.0525 | 0.6354 | 0.3221 | 0.2149 | 0.1073 | 3.0073 | 2.6193 |
| 0.76 | 0.1984 | 2.3805 | 2.4688 | 1.0803 | 0.6522 | 0.3307 | 0.2206 | 0.1101 | 3.0869 | 2.6887 |
| 0.75 | 0.2037 | 2.4444 | 2.5351 | 1.1093 | 0.6697 | 0.3396 | 0.2265 | 0.1131 | 3.1698 | 2.7609 |
| 0.74 | 0.2093 | 2.5110 | 2.6041 | 1.1395 | 0.6879 | 0.3488 | 0.2327 | 0.1161 | 3.2560 | 2.8360 |
| 0.73 | 0.2150 | 2.5802 | 2.6759 | 1.1710 | 0.7069 | 0.3584 | 0.2391 | 0.1193 | 3.3458 | 2.9142 |
| 0.72 | 0.2211 | 2.6524 | 2.7508 | 1.2037 | 0.7267 | 0.3684 | 0.2458 | 0.1227 | 3.4394 | 2.9958 |
| 0.71 | 0.2273 | 2.7276 | 2.8288 | 1.2378 | 0.7473 | 0.3789 | 0.2527 | 0.1262 | 3.5370 | 3.0807 |
| 0.70 | 0.2339 | 2.8061 | 2.9102 | 1.2735 | 0.7688 | 0.3898 | 0.2600 | 0.1298 | 3.6388 | 3.1694 |
| 0.69 | 0.2407 | 2.8880 | 2.9952 | 1.3106 | 0.7912 | 0.4012 | 0.2676 | 0.1336 | 3.7450 | 3.2619 |
| 0.68 | 0.2478 | 2.9736 | 3.0839 | 1.3495 | 0.8147 | 0.4131 | 0.2755 | 0.1375 | 3.8560 | 3.3586 |
| 0.67 | 0.2553 | 3.0630 | 3.1767 | 1.3901 | 0.8392 | 0.4255 | 0.2838 | 0.1417 | 3.9719 | 3.4596 |
| 0.66 | 0.2631 | 3.1566 | 3.2736 | 1.4325 | 0.8648 | 0.4385 | 0.2925 | 0.1460 | 4.0932 | 3.5652 |
| 0.65 | 0.2712 | 3.2544 | 3.3751 | 1.4769 | 0.8916 | 0.4521 | 0.3015 | 0.1505 | 4.2201 | 3.6757 |
| 0.64 | 0.2798 | 3.3569 | 3.4814 | 1.5234 | 0.9197 | 0.4663 | 0.3110 | 0.1553 | 4.3530 | 3.7915 |
| 0.63 | 0.2887 | 3.4643 | 3.5928 | 1.5722 | 0.9491 | 0.4812 | 0.3210 | 0.1602 | 4.4923 | 3.9128 |
| 0.62 | 0.2981 | 3.5770 | 3.7097 | 1.6233 | 0.9800 | 0.4969 | 0.3314 | 0.1655 | 4.6384 | 4.0401 |
| 0.61 | 0.3080 | 3.6952 | 3.8323 | 1.6770 | 1.0124 | 0.5133 | 0.3424 | 0.1709 | 4.7917 | 4.1736 |
| 0.60 | 0.3183 | 3.8194 | 3.9611 | 1.7333 | 1.0464 | 0.5306 | 0.3539 | 0.1767 | 4.9528 | 4.3139 |
| 0.59 | 0.3292 | 3.9500 | 4.0965 | 1.7926 | 1.0822 | 0.5487 | 0.3660 | 0.1827 | 5.1221 | 4.4614 |
| 0.58 | 0.3407 | 4.0874 | 4.2390 | 1.8549 | 1.1198 | 0.5678 | 0.3787 | 0.1891 | 5.3002 | 4.6165 |
| 0.57 | 0.3527 | 4.2321 | 4.3890 | 1.9206 | 1.1594 | 0.5879 | 0.3921 | 0.1958 | 5.4878 | 4.7799 |
| 0.56 | 0.3654 | 4.3846 | 4.5472 | 1.9898 | 1.2012 | 0.6091 | 0.4063 | 0.2028 | 5.6856 | 4.9522 |
| 0.55 | 0.3788 | 4.5455 | 4.7140 | 2.0628 | 1.2453 | 0.6314 | 0.4212 | 0.2102 | 5.8942 | 5.1339 |
| 0.54 | 0.3930 | 4.7154 | 4.8903 | 2.1399 | 1.2918 | 0.6550 | 0.4369 | 0.2181 | 6.1145 | 5.3258 |
| 0.53 | 0.4080 | 4.8950 | 5.0765 | 2.2214 | 1.3410 | 0.6800 | 0.4535 | 0.2264 | 6.3475 | 5.5287 |
| 0.52 | 0.4238 | 5.0851 | 5.2737 | 2.3077 | 1.3931 | 0.7064 | 0.4712 | 0.2352 | 6.5939 | 5.7433 |
| 0.51 | 0.4406 | 5.2864 | 5.4825 | 2.3991 | 1.4483 | 0.7343 | 0.4898 | 0.2445 | 6.8551 | 5.9708 |
| 0.50 | 0.4584 | 5.5000 | 5.7040 | 2.4960 | 1.5068 | 0.7640 | 0.5096 | 0.2544 | 7.1320 | 6.2120 |
| 0.49 | 0.4773 | 5.7268 | 5.9392 | 2.5989 | 1.5689 | 0.7955 | 0.5306 | 0.2649 | 7.4261 | 6.4681 |
| 0.48 | 0.4974 | 5.9679 | 6.1892 | 2.7083 | 1.6350 | 0.8290 | 0.5530 | 0.2760 | 7.7387 | 6.7405 |
| 0.47 | 0.5188 | 6.2245 | 6.4554 | 2.8248 | 1.7053 | 0.8646 | 0.5767 | 0.2879 | 8.0715 | 7.0303 |
| 0.46 | 0.5416 | 6.4981 | 6.7391 | 2.9490 | 1.7802 | 0.9026 | 0.6021 | 0.3006 | 8.4263 | 7.3393 |
| 0.45 | 0.5659 | 6.7901 | 7.0420 | 3.0815 | 1.8602 | 0.9432 | 0.6291 | 0.3141 | 8.8049 | 7.6691 |
| 0.44 | 0.5919 | 7.1023 | 7.3657 | 3.2231 | 1.9458 | 0.9866 | 0.6581 | 0.3285 | 9.2097 | 8.0217 |
| 0.43 | 0.6198 | 7.4365 | 7.7123 | 3.3748 | 2.0373 | 1.0330 | 0.6890 | 0.3440 | 9.6431 | 8.3991 |
| 0.42 | 0.6497 | 7.7948 | 8.0839 | 3.5374 | 2.1355 | 1.0828 | 0.7222 | 0.3605 | 10.1077 | 8.8039 |
| 0.41 | 0.6817 | 8.1797 | 8.4830 | 3.7121 | 2.2409 | 1.1362 | 0.7579 | 0.3783 | 10.6068 | 9.2385 |
| 0.40 | 0.7163 | 8.5938 | 8.9125 | 3.9000 | 2.3544 | 1.1938 | 0.7963 | 0.3975 | 11.1438 | 9.7063 |
| 0.39 | 0.7535 | 9.0401 | 9.3754 | 4.1026 | 2.4767 | 1.2558 | 0.8376 | 0.4181 | 11.7226 | 10.2104 |
| 0.38 | 0.7936 | 9.5222 | 9.8753 | 4.3213 | 2.6087 | 1.3227 | 0.8823 | 0.4404 | 12.3471 | 10.7548 |
| 0.37 | 0.8371 | 10.0438 | 10.4164 | 4.5581 | 2.7516 | 1.3952 | 0.9306 | 0.4646 | 13.0241 | 11.3440 |
| 0.36 | 0.8843 | 10.6096 | 11.0031 | 4.8148 | 2.9066 | 1.4738 | 0.9830 | 0.4907 | 13.7577 | 11.9830 |
| 0.35 | 0.9355 | 11.2245 | 11.6408 | 5.0939 | 3.0751 | 1.5592 | 1.0400 | 0.5192 | 14.5551 | 12.6776 |
| 0.34 | 0.9913 | 11.8945 | 12.3356 | 5.3979 | 3.2587 | 1.6522 | 1.1021 | 0.5502 | 15.4239 | 13.4343 |
| 0.33 | 1.0523 | 12.6263 | 13.0946 | 5.7300 | 3.4591 | 1.7539 | 1.1699 | 0.5840 | 16.3728 | 14.2608 |
| 0.32 | 1.1191 | 13.4277 | 13.9258 | 6.0938 | 3.6787 | 1.8652 | 1.2441 | 0.6211 | 17.4121 | 15.1660 |
| 0.31 | 1.1925 | 14.3080 | 14.8387 | 6.4932 | 3.9199 | 1.9875 | 1.3257 | 0.6618 | 18.5536 | 16.1602 |
| 0.30 | 1.2733 | 15.2778 | 15.8444 | 6.9333 | 4.1856 | 2.1222 | 1.4156 | 0.7067 | 19.8111 | 17.2556 |
| 0.29 | 1.3627 | 16.3496 | 16.9560 | 7.4197 | 4.4792 | 2.2711 | 1.5149 | 0.7562 | 21.2010 | 18.4661 |
| 0.28 | 1.4617 | 17.5383 | 18.1888 | 7.9592 | 4.8048 | 2.4362 | 1.6250 | 0.8112 | 22.7423 | 19.8087 |
| 0.27 | 1.5720 | 18.8615 | 19.5610 | 8.5597 | 5.1674 | 2.6200 | 1.7476 | 0.8724 | 24.4582 | 21.3032 |
| 0.26 | 1.6953 | 20.3402 | 21.0947 | 9.2308 | 5.5725 | 2.8254 | 1.8846 | 0.9408 | 26.3757 | 22.9734 |
| 0.25 | 1.8336 | 22.0000 | 22.8160 | 9.9840 | 6.0272 | 3.0560 | 2.0384 | 1.0176 | 28.5280 | 24.8480 |
| 0.24 | 1.9896 | 23.8715 | 24.7569 | 10.8333 | 6.5399 | 3.3160 | 2.2118 | 1.1042 | 30.9549 | 26.9618 |
| 0.23 | 2.1664 | 25.9924 | 26.9565 | 11.7958 | 7.1210 | 3.6106 | 2.4083 | 1.2023 | 33.7051 | 29.3573 |
| 0.22 | 2.3678 | 28.4091 | 29.4628 | 12.8926 | 7.7831 | 3.9463 | 2.6322 | 1.3140 | 36.8388 | 32.0868 |
| 0.21 | 2.5986 | 31.1791 | 32.3356 | 14.1497 | 8.5420 | 4.3311 | 2.8889 | 1.4422 | 40.4308 | 35.2154 |
| 0.20 | 2.8650 | 34.3750 | 35.6500 | 15.6000 | 9.4175 | 4.7750 | 3.1850 | 1.5900 | 44.5750 | 38.8250 |
| 0.19 | 3.1745 | 38.0886 | 39.5014 | 17.2853 | 10.4349 | 5.2909 | 3.5291 | 1.7618 | 49.3906 | 43.0194 |
| 0.18 | 3.5370 | 42.4383 | 44.0123 | 19.2593 | 11.6265 | 5.8951 | 3.9321 | 1.9630 | 55.0309 | 47.9321 |
| 0.17 | 3.9654 | 47.5779 | 49.3426 | 21.5917 | 13.0346 | 6.6090 | 4.4083 | 2.2007 | 61.6955 | 53.7370 |
| 0.16 | 4.4766 | 53.7109 | 55.7031 | 24.3750 | 14.7148 | 7.4609 | 4.9766 | 2.4844 | 69.6484 | 60.6641 |
| 0.15 | 5.0933 | 61.1111 | 63.3778 | 27.3333 | 16.7422 | 8.4889 | 5.6622 | 2.8267 | 79.2444 | 69.0222 |
| 0.14 | 5.8469 | 70.1531 | 72.7551 | 31.8367 | 19.2194 | 9.7449 | 6.5000 | 3.2449 | 90.9694 | 79.2347 |
| 0.13 | 6.7811 | 81.3609 | 84.3787 | 36.9231 | 22.2899 | 11.3018 | 7.5385 | 3.7633 | 105.5030 | 91.8935 |
| 0.12 | 7.9583 | 95.4861 | 99.0278 | 43.3333 | 26.1597 | 13.2639 | 8.8472 | 4.4167 | 123.8194 | 107.8472 |
| 0.11 | 9.4711 | 113.6364 | 117.8512 | 51.5702 | 31.1322 | 15.7851 | 10.5289 | 5.2562 | 147.3554 | 128.3471 |
| 0.10 | 11.4600 | 137.5000 | 142.6000 | 62.4000 | 37.6700 | 19.1000 | 12.7400 | 6.3600 | 178.3000 | 155.3000 |
| 0.09 | 14.1481 | 169.7531 | 176.0494 | 77.0370 | 46.5062 | 23.5802 | 15.7284 | 7.8519 | 220.1235 | |