

voestalpine High Performance Metals Argentina S.A.

| (Resistencia a la tracción - Dureza Brinell - Vickers - Rockwell, s/DIN 50.150) | | | | | | |
|---|--|-------|----------------|-----------------|------|------|
| Resistencia a la tracción | Dureza Brinell - Ø de la bolilla en mm. | | Dureza Vickers | Dureza Rockwell | | |
| | N/mm2 | Ø | | HB | HV | HRB |
| 255 | 6,63 | 76,0 | 80 | | | |
| 270 | 6,45 | 80,7 | 85 | 41,0 | | |
| 280 | 6,30 | 85,5 | 90 | 48,0 | | |
| 305 | 6,16 | 90,2 | 95 | 52,0 | | |
| 320 | 6,01 | 95,0 | 100 | 56,2 | | |
| 335 | 5,90 | 99,8 | 105 | | | |
| 350 | 5,75 | 105,0 | 110 | 62,3 | | |
| 370 | 5,65 | 109,0 | 115 | | | |
| 385 | 5,54 | 114,0 | 120 | 66,7 | | |
| 400 | 5,43 | 119,0 | 125 | | | |
| 415 | 5,33 | 124,0 | 130 | 71,2 | | |
| 430 | 5,26 | 128,0 | 135 | | | |
| 450 | 5,16 | 133,0 | 140 | 75,0 | | |
| 465 | 5,08 | 138,0 | 145 | | | |
| 480 | 4,99 | 143,0 | 150 | 78,7 | | |
| 495 | 4,93 | 147,0 | 155 | | | |
| 510 | 4,85 | 152,0 | 160 | 81,7 | | |
| 530 | 4,79 | 156,0 | 165 | | | |
| 545 | 4,71 | 162,0 | 170 | 85,0 | | |
| 560 | 4,66 | 166,0 | 175 | | | |
| 575 | 4,59 | 171,0 | 180 | 87,1 | | |
| 595 | 4,53 | 176,0 | 185 | | | |
| 610 | 4,47 | 181,0 | 190 | 89,5 | | |
| 625 | 4,43 | 185,0 | 195 | | | |
| 640 | 4,37 | 190,0 | 200 | 91,5 | | |
| 660 | 4,32 | 195,0 | 205 | 92,5 | | |
| 675 | 4,27 | 199,0 | 210 | 93,5 | | |
| 690 | 4,22 | 204,0 | 215 | 94,0 | | |
| 705 | 4,18 | 209,0 | 220 | 95,0 | | |
| 720 | 4,13 | 214,0 | 225 | 96,0 | | |
| 740 | 4,08 | 219,0 | 230 | 96,7 | | |
| 755 | 4,05 | 223,0 | 235 | | | |
| 770 | 4,01 | 228,0 | 240 | 98,1 | 20,3 | 41,7 |
| 785 | 3,97 | 233,0 | 245 | | 21,3 | 42,5 |
| 800 | 3,92 | 238,0 | 250 | 99,5 | 22,2 | 43,4 |
| 820 | 3,89 | 242,0 | 255 | | 23,1 | 44,2 |
| 835 | 3,86 | 247,0 | 260 | 101,0 | 24,0 | 45,0 |
| 850 | 3,82 | 252,0 | 265 | | 24,8 | 45,7 |
| 865 | 3,78 | 257,0 | 270 | 102,0 | 25,6 | 46,4 |
| 880 | 3,75 | 261,0 | 275 | | 26,4 | 47,2 |
| 900 | 3,72 | 266,0 | 280 | 104,0 | 27,1 | 47,8 |
| 915 | 3,69 | 271,0 | 285 | | 27,8 | 48,4 |
| 930 | 3,66 | 276,0 | 290 | 105,0 | 28,5 | 49,0 |
| 950 | 3,63 | 280,0 | 295 | | 29,2 | 49,7 |
| 965 | 3,60 | 285,0 | 300 | | 29,8 | 52,0 |
| 965 | 3,54 | 295,0 | 310 | | 31,0 | 51,3 |
| 1030 | 3,49 | 304,0 | 320 | | 32,2 | 52,3 |
| 1060 | 3,43 | 314,0 | 330 | | 33,3 | 53,6 |
| 1095 | 3,39 | 323,0 | 340 | | 34,4 | 54,4 |
| 1125 | 3,34 | 333,0 | 350 | | 35,5 | 55,4 |

(Resistencia a la tracción - Dureza Brinell - Vickers - Rockwell, s/DIN 50.150)

| Resistencia a la tracción | Dureza Brinell - \varnothing de la bolilla en mm. | | Dureza Vickers | Dureza Rockwell | | |
|---------------------------|---|---------------|----------------|-----------------|------|------|
| | N/mm ² | \varnothing | | HB | HV | HRB |
| 1155 | 3,29 | 342,0 | 360 | | 36,6 | 56,4 |
| 1190 | 3,25 | 352,0 | 370 | | 37,7 | 57,4 |
| 1220 | 3,21 | 361,0 | 380 | | 38,8 | 58,4 |
| 1255 | 3,17 | 371,0 | 390 | | 39,8 | 59,3 |
| 1290 | 3,13 | 380,0 | 400 | | 40,8 | 60,2 |
| 1320 | 3,09 | 390,0 | 410 | | 41,8 | 61,1 |
| 1350 | 3,06 | 399,0 | 420 | | 42,7 | 61,9 |
| 1385 | 3,02 | 409,0 | 430 | | 43,6 | 62,7 |
| 1420 | 2,99 | 418,0 | 440 | | 44,5 | 63,5 |
| 1455 | 2,95 | 428,0 | 450 | | 45,3 | 64,3 |
| 1485 | 2,92 | 437,0 | 460 | | 46,1 | 64,9 |
| 1520 | 2,89 | 447,0 | 470 | | 46,9 | 65,7 |
| 1555 | 2,86 | 456,0 | 480 | | 47,7 | 66,4 |
| 1595 | | | 490 | | 48,4 | 67,1 |
| 1630 | | | 500 | | 49,1 | 67,7 |
| 1665 | | | 510 | | 49,8 | 68,3 |
| 1700 | | | 520 | | 50,5 | 69,0 |
| 1740 | | | 530 | | 51,1 | 69,5 |
| 1775 | | | 540 | | 51,7 | 70,0 |
| 1810 | | | 550 | | 52,3 | 70,5 |
| 1845 | | | 560 | | 53,0 | 71,2 |
| 1880 | | | 570 | | 53,6 | 71,7 |
| 1920 | | | 580 | | 54,1 | 72,1 |
| 1955 | | | 590 | | 54,7 | 72,7 |
| 1995 | | | 600 | | 55,2 | 73,2 |
| 2030 | | | 610 | | 55,7 | 73,7 |
| 2070 | | | 620 | | 56,3 | 74,2 |
| 2105 | | | 630 | | 56,8 | 74,6 |
| 2145 | | | 640 | | 57,3 | 75,1 |
| 2180 | | | 650 | | 57,8 | 75,5 |
| | | | 660 | | 58,3 | 75,9 |
| | | | 670 | | 58,8 | 76,4 |
| | | | 680 | | 59,2 | 76,8 |
| | | | 690 | | 59,7 | 77,2 |
| | | | 700 | | 60,1 | 77,6 |
| | | | 720 | | 61,0 | 78,4 |
| | | | 740 | | 61,8 | 79,1 |
| | | | 760 | | 62,5 | 79,7 |
| | | | 780 | | 63,3 | 80,4 |
| | | | 800 | | 64,0 | 81,1 |
| | | | 820 | | 64,7 | 81,7 |
| | | | 840 | | 65,3 | 82,2 |
| | | | 860 | | 65,9 | 82,7 |
| | | | 880 | | 66,4 | 83,1 |
| | | | 900 | | 67,0 | 83,6 |
| | | | 920 | | 67,5 | 84,0 |
| | | | 940 | | 68,0 | 84,4 |