

鋼のブリネル硬さに対する近似的換算値 Approximate Relationship Between Various Hardness Scales

| ブリネル Brinell hardness 3,000kg | ロックウェル Rockwell | | | | ビッカース VICKERS | ショアー SHORE | 引張強さ Tensile strength (kg/mm ²) | ブリネル Brinell hardness 3,000kg | ロックウェル Rockwell | | | | ビッカース VICKERS | ショアー SHORE | 引張強さ Tensile strength (kg/mm ²) |
|--|-------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|------------------|---------------|--|--|-------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|------------------|---------------|--|
| | A スケール SCALE 60kg brale | B スケール SCALE 100kg 1/16in | C スケール SCALE 150kg brale | D スケール SCALE 100kg brale | | | | | A スケール SCALE 60kg brale | B スケール SCALE 100kg 1/16in | C スケール SCALE 150kg brale | D スケール SCALE 100kg brale | | | |
| - | 85.6 | - | 68.0 | 76.9 | 940 | 97 | - | 321 | 67.5 | (108.0) | 34.3 | 51.0 | 339 | 47 | 108 |
| - | 85.3 | - | 67.5 | 76.5 | 920 | 96 | - | 311 | 66.9 | (107.5) | 33.1 | 50.0 | 328 | 46 | 105 |
| - | 85.0 | - | 67.0 | 76.1 | 900 | 95 | - | 302 | 66.3 | (107.0) | 32.1 | 49.3 | 319 | 45 | 103 |
| (767) | 84.7 | - | 66.4 | 75.7 | 880 | 93 | - | 293 | 65.7 | (106.0) | 30.9 | 48.3 | 309 | 43 | 99 |
| (757) | 84.4 | - | 65.9 | 75.3 | 860 | 92 | - | 285 | 65.3 | (105.5) | 29.9 | 47.6 | 301 | - | 97 |
| (745) | 84.1 | - | 65.3 | 74.8 | 840 | 91 | - | 277 | 64.6 | (104.5) | 28.8 | 46.7 | 292 | 41 | 94 |
| (733) | 83.8 | - | 64.7 | 74.3 | 820 | 90 | - | 269 | 64.1 | (104.0) | 27.6 | 45.9 | 284 | 40 | 91 |
| (722) | 83.4 | - | 64.0 | 73.8 | 800 | 88 | - | 262 | 63.6 | (103.0) | 26.6 | 45.0 | 276 | 39 | 89 |
| (712) | - | - | - | - | - | - | - | 255 | 63.0 | (102.0) | 25.4 | 44.2 | 269 | 38 | 86 |
| (710) | 83.0 | - | 63.3 | 73.3 | 780 | 87 | - | 248 | 62.5 | (101.0) | 24.2 | 43.2 | 261 | 37 | 84 |
| (698) | 82.6 | - | 62.5 | 72.6 | 760 | 86 | - | 241 | 61.8 | 100.0 | 22.8 | 42.0 | 253 | 36 | 82 |
| (684) | 82.2 | - | 61.8 | 72.1 | 740 | - | - | 235 | 61.4 | 99.0 | 21.7 | 41.4 | 247 | 35 | 80 |
| (682) | 82.2 | - | 61.7 | 72.0 | 737 | 84 | - | 229 | 60.8 | 98.2 | 20.5 | 40.5 | 241 | 34 | 78 |
| (670) | 81.8 | - | 61.0 | 71.5 | 720 | 83 | - | 223 | - | 97.3 (18.8) | - | - | 234 | - | - |
| (656) | 81.3 | - | 60.1 | 70.8 | 700 | - | - | 217 | - | 96.4 (17.5) | - | - | 228 | 33 | 74 |
| (653) | 81.2 | - | 60.0 | 70.7 | 697 | 81 | - | 212 | - | 95.5 (16.0) | - | - | 222 | - | 72 |
| (647) | 81.1 | - | 59.7 | 70.5 | 690 | - | - | 207 | - | 94.6 (15.2) | - | - | 218 | 32 | 70 |
| (638) | 80.8 | - | 59.2 | 70.1 | 680 | 80 | - | 201 | - | 93.8 (13.8) | - | - | 212 | 31 | 69 |
| 630 | 80.6 | - | 58.8 | 69.8 | 670 | - | - | 197 | - | 92.8 (12.7) | - | - | 207 | 30 | 67 |
| 627 | 80.5 | - | 58.7 | 69.7 | 667 | 79 | - | 192 | - | 91.9 (11.5) | - | - | 202 | 29 | 65 |
| 601 | 79.8 | - | 57.3 | 68.7 | 640 | 77 | - | 187 | - | 90.7 (10.0) | - | - | 196 | - | 63 |
| 578 | 79.1 | - | 56.0 | 67.7 | 615 | 75 | - | 183 | - | 90.9 (9.0) | - | - | 192 | 28 | 63 |
| 555 | 78.4 | - | 54.7 | 66.7 | 591 | 73 | 210 | 179 | - | 89.0 (8.0) | - | - | 188 | 27 | 61 |
| 534 | 77.8 | - | 53.5 | 65.8 | 569 | 71 | 202 | 174 | - | 87.8 (6.4) | - | - | 182 | - | 60 |
| 514 | 76.9 | - | 52.1 | 64.7 | 547 | 70 | 193 | 170 | - | 86.8 (5.4) | - | - | 178 | 26 | 58 |
| 495 | 76.3 | - | 51.0 | 63.8 | 528 | 68 | 186 | 167 | - | 86.0 (4.4) | - | - | 175 | - | 57 |
| 477 | 75.6 | - | 49.5 | 62.7 | 508 | 66 | 177 | 163 | - | 85.0 (3.3) | - | - | 171 | 25 | 56 |
| 461 | 74.9 | - | 48.5 | 61.7 | 491 | 65 | 170 | 156 | - | 82.9 (0.9) | - | - | 163 | - | 53 |
| 444 | 74.2 | - | 47.1 | 60.8 | 472 | 63 | 162 | 149 | - | 80.8 | - | - | 156 | 23 | 51 |
| 429 | 73.4 | - | 45.7 | 59.7 | 455 | 61 | 154 | 143 | - | 78.7 | - | - | 150 | 22 | 50 |
| 415 | 72.8 | - | 44.5 | 58.8 | 440 | 59 | 149 | 137 | - | 76.4 | - | - | 143 | 21 | 47 |
| 401 | 72.0 | - | 43.1 | 57.8 | 425 | 58 | 142 | 131 | - | 74.0 | - | - | 137 | - | 46 |
| 388 | 71.4 | - | 41.8 | 56.8 | 410 | 56 | 136 | 126 | - | 72.0 | - | - | 132 | 20 | 44 |
| 375 | 70.6 | - | 40.4 | 55.7 | 396 | 54 | 129 | 121 | - | 69.8 | - | - | 127 | 19 | 42 |
| 363 | 70.0 | - | 39.1 | 54.6 | 383 | 52 | 124 | 116 | - | 67.6 | - | - | 122 | 18 | 41 |
| 352 | 69.3 | (110.0) | 37.9 | 53.8 | 372 | 51 | 120 | 111 | - | 65.7 | - | - | 117 | 15 | 39 |
| 341 | 68.7 | (109.0) | 36.6 | 52.8 | 360 | 50 | 115 | | | | | | | | |
| 331 | 68.1 | (108.5) | 35.5 | 51.9 | 350 | 48 | 112 | | | | | | | | |

1) 表中、()内の数字はあまり用いられません。
 2) この表はJIS鉄鋼ハンドブック(1998)より抜粋しました。
 1) Figures shown with () in above chart are not commonly used.
 2) Tables listed in this page are extracted from JIS Steel Handbook (1998).