

TABELLE HÄRTE – ZUGFESTIGKEIT:

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | | ZUGFESTIGKEIT |
|-------------------------|-------------------|-----------------|---------------|-----|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 63 | 7,32 | 60 | | | 200 |
| 65 | 7,22 | 62 | | | 210 |
| 69 | 7,04 | 66 | | | 220 |
| 70 | 6,99 | 67 | | | 225 |
| 72 | 6,95 | 68 | | | 230 |
| 75 | 6,82 | 71 | | | 240 |
| 79 | 6,67 | 75 | | | 250 |
| 80 | 6,63 | 76 | | | 255 |
| 82 | 6,56 | 78 | | | 260 |
| 85 | 6,45 | 81 | 41,00 | | 270 |
| 88 | 6,35 | 84 | 45,00 | | 280 |
| 90 | 6,28 | 86 | 48,00 | | 285 |
| 91 | 6,25 | 87 | 49,00 | | 290 |
| 94 | 6,19 | 89 | 51,00 | | 300 |
| 95 | 6,16 | 90 | 52,00 | | 305 |
| 97 | 6,10 | 92 | 54,00 | | 310 |
| 100 | 6,01 | 95 | 56,00 | | 320 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | | ZUGFESTIGKEIT |
|-------------------------|-------------------|-----------------|---------------|-----|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 103 | 5,93 | 98 | 58,00 | | 330 |
| 105 | 5,87 | 100 | 59,00 | | 335 |
| 107 | 5,83 | 102 | 60,00 | | 340 |
| 110 | 5,75 | 105 | 62,00 | | 350 |
| 113 | 5,70 | 107 | 63,50 | | 360 |
| 115 | 5,66 | 109 | 64,50 | | 370 |
| 119 | 5,57 | 113 | 66,00 | | 380 |
| 120 | 5,54 | 114 | 67,00 | | 385 |
| 122 | 5,50 | 116 | 67,50 | | 390 |
| 125 | 5,44 | 119 | 69,00 | | 400 |
| 128 | 5,38 | 122 | 70,00 | | 410 |
| 130 | 5,33 | 124 | 71,00 | | 415 |
| 132 | 5,32 | 125 | 72,00 | | 420 |
| 135 | 5,26 | 128 | 73,00 | | 430 |
| 138 | 5,20 | 131 | 74,00 | | 440 |
| 140 | 5,17 | 133 | 75,00 | | 450 |
| 143 | 5,11 | 136 | 76,50 | | 460 |
| 145 | 5,08 | 138 | 77,00 | | 465 |
| 147 | 5,05 | 140 | 77,50 | | 470 |
| 150 | 5,00 | 143 | 78,50 | | 480 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|-------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 153 | 4,96 | 145 | 79,35 | | 490 |
| 155 | 4,93 | 147 | 80,00 | | 495 |
| 157 | 4,90 | 149 | 81,00 | | 500 |
| 160 | 4,86 | 152 | 81,50 | | 510 |
| 163 | 4,81 | 155 | 82,50 | | 520 |
| 165 | 4,78 | 157 | 83,00 | | 530 |
| 168 | 4,74 | 160 | 84,50 | | 540 |
| 170 | 4,71 | 162 | 85,00 | | 545 |
| 172 | 4,70 | 163 | 85,50 | | 550 |
| 175 | 4,66 | 166 | 86,00 | | 560 |
| 178 | 4,62 | 169 | 86,50 | | 570 |
| 180 | 4,59 | 171 | 87,00 | | 575 |
| 181 | 4,58 | 172 | | | 580 |
| 184 | 4,54 | 175 | 88,00 | | 590 |
| 185 | 4,53 | 176 | | | 595 |
| 187 | 4,51 | 178 | 89,00 | | 600 |
| 190 | 4,47 | 181 | 89,50 | | 610 |
| 193 | 4,44 | 184 | 90,00 | | 620 |
| 195 | 4,43 | 185 | | | 625 |
| 197 | 4,40 | 187 | 91,00 | | 630 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | | ZUGFESTIGKEIT |
|-------------------------|-------------------|-----------------|---------------|-----|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 200 | 4,37 | 190 | 91,50 | | 640 |
| 203 | 4,34 | 193 | 92,00 | | 650 |
| 205 | 4,32 | 195 | 92,50 | | 660 |
| 208 | 4,29 | 198 | 93,00 | | 670 |
| 210 | 4,27 | 199 | 93,50 | | 675 |
| 212 | 4,25 | 201 | | | 680 |
| 215 | 4,22 | 204 | 94,00 | | 690 |
| 219 | 4,19 | 208 | | | 700 |
| 220 | 4,18 | 209 | 95,00 | | 705 |
| 222 | 4,16 | 211 | 95,50 | | 710 |
| 225 | 4,13 | 214 | 96,00 | | 720 |
| 228 | 4,11 | 216 | | | 730 |
| 230 | 4,08 | 219 | 96,50 | | 740 |
| 233 | 4,07 | 221 | 97,00 | | 750 |
| 235 | 4,05 | 223 | | | 755 |
| 237 | 4,03 | 225 | 97,50 | | 760 |
| 240 | 4,01 | 228 | 98,00 | | 770 |
| 243 | 3,98 | 231 | | 21 | 780 |
| 245 | 3,97 | 233 | | | 785 |
| 247 | 3,95 | 235 | 99,00 | | 790 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | | ZUGFESTIGKEIT |
|-------------------------|-------------------|-----------------|---------------|-----|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 250 | 3,93 | 238 | 99,50 | 22 | 800 |
| 253 | 3,91 | 240 | | | 710 |
| 255 | 3,89 | 242 | | 23 | 820 |
| 258 | 3,87 | 245 | | | 830 |
| 260 | 3,85 | 247 | | 24 | 835 |
| 262 | 3,84 | 249 | | | 840 |
| 265 | 3,82 | 252 | | | 850 |
| 268 | 3,80 | 255 | | 25 | 860 |
| 270 | 3,78 | 257 | | | 865 |
| 272 | 3,77 | 258 | | 26 | 870 |
| 275 | 3,76 | 261 | | | 880 |
| 278 | 3,74 | 264 | | | 890 |
| 280 | 3,72 | 266 | | 27 | 900 |
| 283 | 3,70 | 269 | | | 910 |
| 285 | 3,69 | 271 | | | 915 |
| 287 | 3,68 | 273 | | 28 | 920 |
| 290 | 3,66 | 276 | | | 930 |
| 293 | 3,64 | 278 | | 29 | 940 |
| 295 | 3,63 | 280 | | | 950 |
| 299 | 3,61 | 284 | | | 960 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|-------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 300 | 3,60 | 285 | | | 965 |
| 302 | 3,59 | 287 | | 30 | 970 |
| 305 | 3,57 | 290 | | | 980 |
| 308 | 3,55 | 293 | | | 990 |
| 310 | 3,54 | 295 | | 31 | 995 |
| 311 | 3,53 | 296 | | | 1000 |
| 314 | 3,52 | 299 | | | 1010 |
| 317 | 3,50 | 301 | | 32 | 1020 |
| 320 | 3,49 | 304 | | | 1030 |
| 323 | 3,47 | 307 | | | 1040 |
| 327 | 3,45 | 311 | | 33 | 1050 |
| 330 | 3,44 | 314 | | | 1060 |
| 333 | 3,43 | 316 | | | 1070 |
| 336 | 3,41 | 319 | | 34 | 1080 |
| 339 | 3,40 | 322 | | | 1090 |
| 340 | 3,39 | 323 | | | 1095 |
| 342 | 3,38 | 325 | | | 1100 |
| 345 | 3,36 | 328 | | 35 | 1110 |
| 349 | 3,35 | 332 | | | 1120 |
| 350 | 3,34 | 333 | | | 1125 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|-------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 352 | 3,33 | 334 | | | 1130 |
| 355 | 3,32 | 337 | | 36 | 1140 |
| 358 | 3,31 | 340 | | | 1150 |
| 360 | 3,30 | 342 | | | 1155 |
| 361 | 3,29 | 343 | | | 1160 |
| 364 | 3,28 | 346 | | 37 | 1170 |
| 367 | 3,26 | 349 | | | 1180 |
| 370 | 3,25 | 352 | | | 1190 |
| 373 | 3,24 | 354 | | 38 | 1200 |
| 376 | 3,23 | 357 | | | 1210 |
| 380 | 3,21 | 361 | | | 1220 |
| 382 | 3,20 | 363 | | 39 | 1230 |
| 385 | 3,19 | 366 | | | 1240 |
| 388 | 3,18 | 369 | | | 1250 |
| 390 | 3,17 | 371 | | | 1255 |
| 392 | | 372 | | 40 | 1260 |
| 394 | 3,16 | 374 | | | 1270 |
| 397 | 3,14 | 377 | | | 1280 |
| 400 | 3,13 | 380 | | | 1290 |
| 403 | 3,12 | 383 | | 41 | 1300 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|-------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 407 | 3,10 | 387 | | | 1310 |
| 410 | 3,09 | 390 | | | 1320 |
| 413 | 3,08 | 393 | | 42 | 1330 |
| 417 | 3,07 | 396 | | | 1340 |
| 420 | 3,06 | 399 | | | 1350 |
| 423 | 3,05 | 402 | | 43 | 1360 |
| 426 | 3,04 | 405 | | | 1370 |
| 429 | | 408 | | | 1380 |
| 430 | 3,02 | 409 | | | 1385 |
| 431 | | 410 | | | 1390 |
| 434 | 3,01 | 413 | | 44 | 1400 |
| 437 | 3,00 | 415 | | | 1410 |
| 440 | 2,99 | 418 | | | 1420 |
| 443 | 2,98 | 421 | | | 1430 |
| 446 | 2,97 | 424 | | 45 | 1440 |
| 449 | 2,96 | 427 | | | 1450 |
| 450 | | 428 | | | 1455 |
| 452 | 2,95 | 429 | | | 1460 |
| 455 | 2,94 | 432 | | | 1470 |
| 458 | 2,93 | 435 | | 46 | 1480 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT |
|-------------------------|-------------------|-----------------|---------------|-------------------|
| HV | mm | HB | HRB HRC | N/mm ² |
| 460 | | 437 | | 1485 |
| 461 | 2,92 | 438 | | 1490 |
| 464 | 2,91 | 441 | | 1500 |
| 467 | 2,90 | 444 | | 1510 |
| 470 | 2,89 | 447 | | 1520 |
| 473 | | 449 | 47 | 1530 |
| 476 | 2,88 | 452 | | 1540 |
| 479 | 2,87 | 455 | | 1550 |
| 480 | | 456 | | 1555 |
| 481 | 2,96 | 457 | | 1560 |
| 484 | 2,85 | 460 | 48 | 1570 |
| 486 | | 462 | | 1580 |
| 489 | 2,84 | 465 | | 1590 |
| 490 | 2,83 | 466 | | 1595 |
| 491 | | 467 | | 1600 |
| 494 | 2,82 | 470 | | 1610 |
| 497 | | 472 | 49 | 1620 |
| 500 | | 475 | | 1630 |
| 503 | 2,80 | 478 | | 1640 |
| 506 | 2,79 | 481 | | 1650 |

| VICKERSHÄRTE (Fv98N) | KUGLEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 509 | | 483 | | | 1660 |
| 510 | 2,78 | 485 | | | 1665 |
| 511 | | 486 | | | 1670 |
| 514 | 2,77 | 488 | | 50 | 1680 |
| 517 | 2,76 | 491 | | | 1690 |
| 520 | 2,75 | 494 | | | 1700 |
| 522 | | 496 | | | 1710 |
| 525 | 2,74 | 499 | | | 1720 |
| 527 | | 501 | | 51 | 1730 |
| 530 | 2,73 | 504 | | | 1740 |
| 533 | 2,72 | 506 | | | 1750 |
| 536 | 2,71 | 509 | | | 1760 |
| 539 | | 512 | | | 1770 |
| 540 | 2,70 | 513 | | | 1775 |
| 541 | | 514 | | | 1780 |
| 544 | 2,69 | 517 | | 52 | 1790 |
| 547 | | 520 | | | 1800 |
| 550 | 2,68 | 523 | | | 1810 |
| 553 | 2,67 | 525 | | | 1820 |
| 556 | | 528 | | | 1830 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|-------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 559 | 2,66 | 531 | | | 1840 |
| 560 | | 532 | | 53 | 1845 |
| 561 | 2,65 | 533 | | | 1850 |
| 564 | | 536 | | | 1860 |
| 567 | 2,64 | 539 | | | 1870 |
| 570 | | 542 | | | 1880 |
| 572 | 2,63 | 543 | | | 1890 |
| 575 | 2,62 | 546 | | | 1900 |
| 578 | | 549 | | 54 | 1910 |
| 580 | 2,61 | 551 | | | 1920 |
| 583 | 2,60 | 554 | | | 1930 |
| 586 | | 557 | | | 1940 |
| 589 | 2,59 | 560 | | | 1950 |
| 590 | | 561 | | | 1955 |
| 591 | | 562 | | | 1960 |
| 594 | 2,58 | 564 | | | 1970 |
| 596 | | 567 | | | 1980 |
| 599 | 2,57 | 569 | | | 1990 |
| 600 | | 570 | | | 1995 |
| 602 | 2,56 | 572 | | | 2000 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT |
|-------------------------|-------------------|-----------------|---------------|-------------------|
| HV | mm | HB | HRB HRC | N/mm ² |
| 605 | | 575 | | 2010 |
| 607 | 2,55 | 577 | | 2020 |
| 610 | | 580 | | 2030 |
| 613 | 2,54 | 582 | | 2040 |
| 615 | | 584 | 56 | 2050 |
| 618 | 2,53 | 587 | | 2060 |
| 620 | | 589 | | 2070 |
| 623 | 2,52 | 592 | | 2080 |
| 626 | | 595 | | 2090 |
| 629 | 2,51 | 598 | | 2100 |
| 630 | | 599 | | 2105 |
| 631 | | 600 | | 2110 |
| 634 | 2,50 | 602 | | 2120 |
| 636 | | 604 | | 2130 |
| 639 | 2,49 | 607 | 57 | 2140 |
| 640 | | 608 | | 2145 |
| 641 | | 609 | | 2150 |
| 644 | 2,48 | 612 | | 2160 |
| 647 | 2,47 | 615 | | 2170 |
| 650 | | 618 | | 2180 |

| VICKERSHÄRTE (Fv98N) | KUGELEINDRUCK M1) | BRINELLHÄRTE 2) | ROCKWELLHÄRTE | ZUGFESTIGKEIT | |
|-------------------------|-------------------|-----------------|---------------|---------------|-------------------|
| HV | mm | HB | HRB | HRC | N/mm ² |
| 653 | | 620 | | | 2190 |
| 655 | 2,46 | 622 | | 58 | 2200 |
| 675 | | | | 59 | |
| 698 | | | | 60 | |
| 720 | | | | 61 | |
| 745 | | | | 62 | |
| 773 | | | | 63 | |
| 800 | | | | 64 | |
| 829 | | | | 65 | |
| 864 | | | | 66 | |
| 900 | | | | 67 | |
| 940 | | | | 68 | |

1) Stahlkugel 10 mm Durchmesser 2) Errechnet aus: HB = 0,95 HV
Bei den Angaben handelt es sich lediglich um Näherungswerte für rostfreien Edelstahl.