



TABELA DE MILIVOLTAGEM DO TERMOPAR NicNiS Nicrosil Nisil TIPO "N"

Níquel – Cromo – Silício / Níquel – Silício - ASTM-E-230 - Temperatura em graus Celsius (ITS-90)
Força eletromotriz térmica em milivolts - Junção de referência a 0°C

| °C | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -270 | -4,345 | | | | | | | | | | |
| -260 | -4,336 | -4,337 | -4,339 | -4,340 | -4,341 | -4,342 | -4,343 | -4,344 | -4,344 | -4,345 | -4,345 |
| -250 | -4,313 | -4,316 | -4,319 | -4,321 | -4,324 | -4,326 | -4,328 | -4,330 | -4,332 | -4,334 | -4,336 |
| -240 | -4,277 | -4,281 | -4,285 | -4,289 | -4,293 | -4,297 | -4,300 | -4,304 | -4,307 | -4,310 | -4,313 |
| -230 | -4,226 | -4,232 | -4,238 | -4,243 | -4,248 | -4,254 | -4,258 | -4,263 | -4,268 | -4,273 | -4,277 |
| -220 | -4,162 | -4,169 | -4,176 | -4,183 | -4,189 | -4,196 | -4,202 | -4,209 | -4,215 | -4,221 | -4,226 |
| -210 | -4,083 | -4,091 | -4,100 | -4,108 | -4,116 | -4,124 | -4,132 | -4,140 | -4,147 | -4,154 | -4,162 |
| -200 | -3,990 | -4,000 | -4,010 | -4,020 | -4,029 | -4,038 | -4,048 | -4,057 | -4,066 | -4,074 | -4,083 |
| -190 | -3,884 | -3,896 | -3,907 | -3,918 | -3,928 | -3,939 | -3,950 | -3,960 | -3,970 | -3,980 | -3,990 |
| -180 | -3,766 | -3,778 | -3,790 | -3,803 | -3,815 | -3,827 | -3,838 | -3,850 | -3,862 | -3,873 | -3,884 |
| -170 | -3,634 | -3,648 | -3,662 | -3,675 | -3,688 | -3,702 | -3,715 | -3,728 | -3,740 | -3,753 | -3,766 |
| -160 | -3,491 | -3,506 | -3,521 | -3,535 | -3,550 | -3,564 | -3,578 | -3,593 | -3,607 | -3,621 | -3,634 |
| -150 | -3,336 | -3,352 | -3,368 | -3,384 | -3,400 | -3,415 | -3,431 | -3,446 | -3,461 | -3,476 | -3,491 |
| -140 | -3,171 | -3,188 | -3,205 | -3,221 | -3,238 | -3,255 | -3,271 | -3,288 | -3,304 | -3,320 | -3,336 |
| -130 | -2,994 | -3,012 | -3,030 | -3,048 | -3,066 | -3,084 | -3,101 | -3,119 | -3,136 | -3,153 | -3,171 |
| -120 | -2,808 | -2,827 | -2,846 | -2,865 | -2,883 | -2,902 | -2,921 | -2,939 | -2,958 | -2,976 | -2,994 |
| -110 | -2,612 | -2,632 | -2,652 | -2,672 | -2,691 | -2,711 | -2,730 | -2,750 | -2,769 | -2,789 | -2,808 |
| -100 | -2,407 | -2,428 | -2,448 | -2,469 | -2,490 | -2,510 | -2,531 | -2,551 | -2,571 | -2,592 | -2,612 |
| -90 | -2,193 | -2,215 | -2,237 | -2,258 | -2,280 | -2,301 | -2,322 | -2,344 | -2,365 | -2,386 | -2,407 |
| -80 | -1,972 | -1,995 | -2,017 | -2,039 | -2,062 | -2,084 | -2,106 | -2,128 | -2,150 | -2,172 | -2,193 |
| -70 | -1,744 | -1,767 | -1,790 | -1,813 | -1,836 | -1,859 | -1,882 | -1,905 | -1,927 | -1,950 | -1,972 |
| -60 | -1,509 | -1,533 | -1,557 | -1,580 | -1,604 | -1,627 | -1,651 | -1,674 | -1,698 | -1,721 | -1,744 |
| -50 | -1,269 | -1,293 | -1,317 | -1,341 | -1,366 | -1,390 | -1,414 | -1,438 | -1,462 | -1,485 | -1,509 |
| -40 | -1,023 | -1,048 | -1,072 | -1,097 | -1,122 | -1,146 | -1,171 | -1,195 | -1,220 | -1,244 | -1,269 |
| -30 | -0,772 | -0,798 | -0,823 | -0,848 | -0,873 | -0,898 | -0,923 | -0,948 | -0,973 | -0,998 | -1,023 |
| -20 | -0,518 | -0,544 | -0,569 | -0,595 | -0,620 | -0,646 | -0,671 | -0,696 | -0,722 | -0,747 | -0,772 |
| -10 | -0,260 | -0,286 | -0,312 | -0,338 | -0,364 | -0,390 | -0,415 | -0,441 | -0,467 | -0,492 | -0,518 |
| 0 | 0,000 | -0,026 | -0,052 | -0,078 | -0,104 | -0,131 | -0,157 | -0,183 | -0,209 | -0,234 | -0,260 |
| 0 | 0,000 | 0,026 | 0,052 | 0,078 | 0,104 | 0,130 | 0,156 | 0,182 | 0,208 | 0,235 | 0,261 |
| 10 | 0,261 | 0,287 | 0,313 | 0,340 | 0,366 | 0,393 | 0,419 | 0,446 | 0,472 | 0,499 | 0,525 |
| 20 | 0,525 | 0,552 | 0,578 | 0,605 | 0,632 | 0,659 | 0,685 | 0,712 | 0,739 | 0,766 | 0,793 |
| 30 | 0,793 | 0,820 | 0,847 | 0,874 | 0,901 | 0,928 | 0,955 | 0,983 | 1,010 | 1,037 | 1,065 |
| 40 | 1,065 | 1,092 | 1,119 | 1,147 | 1,174 | 1,202 | 1,229 | 1,257 | 1,284 | 1,312 | 1,340 |
| 50 | 1,340 | 1,368 | 1,395 | 1,423 | 1,451 | 1,479 | 1,507 | 1,535 | 1,563 | 1,591 | 1,619 |
| 60 | 1,619 | 1,647 | 1,675 | 1,703 | 1,732 | 1,760 | 1,788 | 1,817 | 1,845 | 1,873 | 1,902 |
| 70 | 1,902 | 1,930 | 1,959 | 1,988 | 2,016 | 2,045 | 2,074 | 2,102 | 2,131 | 2,160 | 2,189 |
| 80 | 2,189 | 2,218 | 2,247 | 2,276 | 2,305 | 2,334 | 2,363 | 2,392 | 2,421 | 2,450 | 2,480 |
| 90 | 2,480 | 2,509 | 2,538 | 2,568 | 2,597 | 2,626 | 2,656 | 2,685 | 2,715 | 2,744 | 2,774 |
| 100 | 2,774 | 2,804 | 2,833 | 2,863 | 2,893 | 2,923 | 2,953 | 2,983 | 3,012 | 3,042 | 3,072 |



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|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 110 | 3,072 | 3,102 | 3,133 | 3,163 | 3,193 | 3,223 | 3,253 | 3,283 | 3,314 | 3,344 | 3,374 |
| 120 | 3,374 | 3,405 | 3,435 | 3,466 | 3,496 | 3,527 | 3,557 | 3,588 | 3,619 | 3,649 | 3,680 |
| 130 | 3,680 | 3,711 | 3,742 | 3,772 | 3,803 | 3,834 | 3,865 | 3,896 | 3,927 | 3,958 | 3,989 |
| 140 | 3,989 | 4,020 | 4,051 | 4,083 | 4,114 | 4,145 | 4,176 | 4,208 | 4,239 | 4,270 | 4,302 |
| 150 | 4,302 | 4,333 | 4,365 | 4,396 | 4,428 | 4,459 | 4,491 | 4,523 | 4,554 | 4,586 | 4,618 |
| 160 | 4,618 | 4,650 | 4,681 | 4,713 | 4,745 | 4,777 | 4,809 | 4,841 | 4,873 | 4,905 | 4,937 |
| 170 | 4,937 | 4,969 | 5,001 | 5,033 | 5,066 | 5,098 | 5,130 | 5,162 | 5,195 | 5,227 | 5,259 |
| 180 | 5,259 | 5,292 | 5,324 | 5,357 | 5,389 | 5,422 | 5,454 | 5,487 | 5,520 | 5,552 | 5,585 |
| 190 | 5,585 | 5,618 | 5,650 | 5,683 | 5,716 | 5,749 | 5,782 | 5,815 | 5,847 | 5,880 | 5,913 |
| 200 | 5,913 | 5,946 | 5,979 | 6,013 | 6,046 | 6,079 | 6,112 | 6,145 | 6,178 | 6,211 | 6,245 |
| 210 | 6,245 | 6,278 | 6,311 | 6,345 | 6,378 | 6,411 | 6,445 | 6,478 | 6,512 | 6,545 | 6,579 |
| 220 | 6,579 | 6,612 | 6,646 | 6,680 | 6,713 | 6,747 | 6,781 | 6,814 | 6,848 | 6,882 | 6,916 |
| 230 | 6,916 | 6,949 | 6,983 | 7,017 | 7,051 | 7,085 | 7,119 | 7,153 | 7,187 | 7,221 | 7,255 |
| 240 | 7,255 | 7,289 | 7,323 | 7,357 | 7,392 | 7,426 | 7,460 | 7,494 | 7,528 | 7,563 | 7,597 |
| 250 | 7,597 | 7,631 | 7,666 | 7,700 | 7,734 | 7,769 | 7,803 | 7,838 | 7,872 | 7,907 | 7,941 |
| 260 | 7,941 | 7,976 | 8,010 | 8,045 | 8,080 | 8,114 | 8,149 | 8,184 | 8,218 | 8,253 | 8,288 |
| 270 | 8,288 | 8,323 | 8,358 | 8,392 | 8,427 | 8,462 | 8,497 | 8,532 | 8,567 | 8,602 | 8,637 |
| 280 | 8,637 | 8,672 | 8,707 | 8,742 | 8,777 | 8,812 | 8,847 | 8,882 | 8,918 | 8,953 | 8,988 |
| 290 | 8,988 | 9,023 | 9,058 | 9,094 | 9,129 | 9,164 | 9,200 | 9,235 | 9,270 | 9,306 | 9,341 |
| 300 | 9,341 | 9,377 | 9,412 | 9,448 | 9,483 | 9,519 | 9,554 | 9,590 | 9,625 | 9,661 | 9,696 |
| 310 | 9,696 | 9,732 | 9,768 | 9,803 | 9,839 | 9,875 | 9,910 | 9,946 | 9,982 | 10,018 | 10,054 |
| 320 | 10,054 | 10,089 | 10,125 | 10,161 | 10,197 | 10,233 | 10,269 | 10,305 | 10,341 | 10,377 | 10,413 |
| 330 | 10,413 | 10,449 | 10,485 | 10,521 | 10,557 | 10,593 | 10,629 | 10,665 | 10,701 | 10,737 | 10,774 |
| 340 | 10,774 | 10,810 | 10,846 | 10,882 | 10,918 | 10,955 | 10,991 | 11,027 | 11,064 | 11,100 | 11,136 |
| 350 | 11,136 | 11,173 | 11,209 | 11,245 | 11,282 | 11,318 | 11,355 | 11,391 | 11,428 | 11,464 | 11,501 |
| 360 | 11,501 | 11,537 | 11,574 | 11,610 | 11,647 | 11,683 | 11,720 | 11,757 | 11,793 | 11,830 | 11,867 |
| 370 | 11,867 | 11,903 | 11,940 | 11,977 | 12,013 | 12,050 | 12,087 | 12,124 | 12,160 | 12,197 | 12,234 |
| 380 | 12,234 | 12,271 | 12,308 | 12,345 | 12,382 | 12,418 | 12,455 | 12,492 | 12,529 | 12,566 | 12,603 |
| 390 | 12,603 | 12,640 | 12,677 | 12,714 | 12,751 | 12,788 | 12,825 | 12,862 | 12,899 | 12,937 | 12,974 |
| 400 | 12,974 | 13,011 | 13,048 | 13,085 | 13,122 | 13,159 | 13,197 | 13,234 | 13,271 | 13,308 | 13,346 |
| 410 | 13,346 | 13,383 | 13,420 | 13,457 | 13,495 | 13,532 | 13,569 | 13,607 | 13,644 | 13,682 | 13,719 |
| 420 | 13,719 | 13,756 | 13,794 | 13,831 | 13,869 | 13,906 | 13,944 | 13,981 | 14,019 | 14,056 | 14,094 |
| 430 | 14,094 | 14,131 | 14,169 | 14,206 | 14,244 | 14,281 | 14,319 | 14,356 | 14,394 | 14,432 | 14,469 |
| 440 | 14,469 | 14,507 | 14,545 | 14,582 | 14,620 | 14,658 | 14,695 | 14,733 | 14,771 | 14,809 | 14,846 |
| 450 | 14,846 | 14,884 | 14,922 | 14,960 | 14,998 | 15,035 | 15,073 | 15,111 | 15,149 | 15,187 | 15,225 |
| 460 | 15,225 | 15,262 | 15,300 | 15,338 | 15,376 | 15,414 | 15,452 | 15,490 | 15,528 | 15,566 | 15,604 |
| 470 | 15,604 | 15,642 | 15,680 | 15,718 | 15,756 | 15,794 | 15,832 | 15,870 | 15,908 | 15,946 | 15,984 |
| 480 | 15,984 | 16,022 | 16,060 | 16,099 | 16,137 | 16,175 | 16,213 | 16,251 | 16,289 | 16,327 | 16,366 |
| 490 | 16,366 | 16,404 | 16,442 | 16,480 | 16,518 | 16,557 | 16,595 | 16,633 | 16,671 | 16,710 | 16,748 |
| 500 | 16,748 | 16,786 | 16,824 | 16,863 | 16,901 | 16,939 | 16,978 | 17,016 | 17,054 | 17,093 | 17,131 |
| 510 | 17,131 | 17,169 | 17,208 | 17,246 | 17,285 | 17,323 | 17,361 | 17,400 | 17,438 | 17,477 | 17,515 |
| 520 | 17,515 | 17,554 | 17,592 | 17,630 | 17,669 | 17,707 | 17,746 | 17,784 | 17,823 | 17,861 | 17,900 |
| 530 | 17,900 | 17,938 | 17,977 | 18,016 | 18,054 | 39,839 | 39,920 | 40,001 | 40,082 | 40,163 | 40,243 |
| 540 | 18,286 | 18,324 | 40,405 | 40,486 | 40,567 | 40,648 | 40,729 | 40,810 | 40,891 | 40,972 | 41,053 |



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|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 550 | 18,672 | 18,711 | 41,215 | 41,296 | 41,377 | 41,457 | 41,538 | 41,619 | 41,700 | 41,781 | 41,862 |
| 560 | 19,059 | 19,098 | 42,024 | 42,105 | 42,185 | 42,266 | 42,347 | 42,428 | 42,509 | 42,590 | 42,671 |
| 570 | 19,447 | 19,485 | 42,832 | 42,913 | 42,994 | 43,075 | 43,156 | 43,236 | 43,317 | 43,398 | 43,479 |
| 580 | 19,835 | 19,874 | 43,640 | 43,721 | 43,802 | 43,883 | 43,963 | 44,044 | 44,125 | 44,206 | 44,286 |
| 590 | 20,224 | 20,263 | 44,448 | 44,529 | 44,609 | 44,690 | 44,771 | 44,851 | 44,932 | 45,013 | 45,093 |
| 600 | 20,613 | 20,652 | 45,255 | 45,335 | 45,416 | 45,497 | 45,577 | 45,658 | 45,738 | 45,819 | 45,900 |
| 610 | 21,003 | 21,042 | 46,061 | 46,141 | 46,222 | 46,302 | 46,383 | 46,463 | 46,544 | 46,624 | 46,705 |
| 620 | 21,393 | 21,432 | 46,866 | 46,946 | 47,027 | 47,107 | 47,188 | 47,268 | 47,349 | 47,429 | 47,509 |
| 630 | 21,784 | 21,823 | 47,670 | 47,751 | 47,831 | 47,911 | 47,992 | 48,072 | 48,152 | 48,233 | 48,313 |
| 640 | 22,175 | 22,214 | 48,474 | 48,554 | 48,634 | 48,715 | 48,795 | 48,875 | 48,955 | 49,035 | 49,116 |
| 650 | 22,566 | 22,605 | 49,276 | 49,356 | 49,436 | 49,517 | 49,597 | 49,677 | 49,757 | 49,837 | 49,917 |
| 660 | 22,958 | 22,997 | 50,077 | 50,157 | 50,238 | 50,318 | 50,398 | 50,478 | 50,558 | 50,638 | 50,718 |
| 670 | 23,350 | 23,389 | 50,878 | 50,958 | 51,038 | 51,118 | 51,197 | 51,277 | 51,357 | 51,437 | 51,517 |
| 680 | 23,742 | 23,781 | 51,677 | 51,757 | 51,837 | 51,916 | 51,996 | 52,076 | 52,156 | 52,236 | 52,315 |
| 690 | 24,134 | 24,173 | 52,475 | 52,555 | 52,634 | 52,714 | 52,794 | 52,873 | 52,953 | 53,033 | 53,112 |
| 700 | 24,527 | 24,566 | 53,272 | 53,351 | 53,431 | 53,510 | 53,590 | 53,670 | 53,749 | 53,829 | 53,908 |
| 710 | 24,919 | 24,959 | 54,067 | 54,147 | 54,226 | 54,306 | 54,385 | 54,465 | 54,544 | 54,624 | 54,703 |
| 720 | 25,312 | 25,351 | 54,862 | 54,941 | 55,021 | 55,100 | 55,179 | 55,259 | 55,338 | 55,417 | 55,497 |
| 730 | 25,705 | 25,744 | 55,655 | 55,734 | 55,814 | 55,893 | 55,972 | 56,051 | 56,131 | 56,210 | 56,289 |
| 740 | 26,098 | 26,137 | 56,447 | 56,526 | 56,606 | 56,685 | 56,764 | 56,843 | 56,922 | 57,001 | 57,080 |
| 750 | 26,491 | 26,530 | 57,238 | 57,317 | 57,396 | 57,475 | 57,554 | 57,633 | 57,712 | 57,791 | 57,870 |
| 760 | 26,883 | 26,923 | 58,028 | 58,107 | 58,186 | 58,265 | 58,343 | 58,422 | 58,501 | 58,580 | 58,659 |
| 770 | 27,276 | 27,316 | 58,816 | 58,895 | 58,974 | 59,053 | 59,131 | 59,210 | 59,289 | 59,367 | 59,446 |
| 780 | 27,669 | 27,708 | 59,604 | 59,682 | 59,761 | 59,839 | 59,918 | 59,997 | 60,075 | 60,154 | 60,232 |
| 790 | 28,062 | 28,101 | 60,390 | 60,468 | 60,547 | 60,625 | 60,704 | 60,782 | 60,860 | 60,939 | 61,017 |
| 800 | 28,455 | 28,494 | 61,174 | 61,253 | 61,331 | 61,409 | 61,488 | 61,566 | 61,644 | 61,723 | 61,801 |
| 810 | 28,847 | 28,886 | 61,958 | 62,036 | 62,114 | 62,192 | 62,271 | 62,349 | 62,427 | 62,505 | 62,583 |
| 820 | 29,239 | 29,279 | 62,740 | 62,818 | 62,896 | 62,974 | 63,052 | 63,130 | 63,208 | 63,286 | 63,364 |
| 830 | 29,632 | 29,671 | 63,520 | 63,598 | 63,676 | 63,754 | 63,832 | 63,910 | 63,988 | 64,066 | 64,144 |
| 840 | 30,024 | 30,063 | 64,300 | 64,377 | 64,455 | 64,533 | 64,611 | 64,689 | 64,766 | 64,844 | 64,922 |
| 850 | 30,416 | 30,455 | 65,077 | 65,155 | 65,233 | 65,310 | 65,388 | 65,465 | 65,543 | 65,621 | 65,698 |
| 860 | 30,807 | 30,846 | 65,853 | 65,931 | 66,008 | 66,086 | 66,163 | 66,241 | 66,318 | 66,396 | 66,473 |
| 870 | 31,199 | 31,238 | 66,628 | 66,705 | 66,782 | 66,860 | 66,937 | 67,014 | 67,092 | 67,169 | 67,246 |
| 880 | 31,590 | 31,629 | 67,400 | 67,478 | 67,555 | 67,632 | 67,709 | 67,786 | 67,863 | 67,940 | 68,017 |
| 890 | 31,981 | 32,020 | 68,171 | 68,248 | 68,325 | 68,402 | 68,479 | 68,556 | 68,633 | 68,710 | 68,787 |
| 900 | 32,371 | 32,410 | 68,940 | 69,017 | 69,094 | 69,171 | 69,247 | 69,324 | 69,401 | 69,477 | 69,554 |
| 910 | 32,761 | 32,800 | 69,707 | 69,784 | 69,860 | 69,937 | 70,013 | 70,090 | 70,166 | 70,243 | 70,319 |
| 920 | 33,151 | 33,190 | 70,472 | 70,548 | 70,625 | 70,701 | 70,777 | 70,854 | 70,930 | 71,006 | 71,082 |
| 930 | 33,541 | 33,580 | 71,235 | 71,311 | 71,387 | 71,463 | 71,539 | 71,615 | 71,692 | 71,768 | 71,844 |
| 940 | 33,930 | 33,969 | 71,996 | 72,072 | 72,147 | 72,223 | 72,299 | 72,375 | 72,451 | 72,527 | 72,603 |
| 950 | 34,319 | 34,358 | 72,754 | 72,830 | 72,906 | 72,981 | 73,057 | 73,133 | 73,208 | 73,284 | 73,360 |
| 960 | 34,707 | 34,746 | 73,511 | 73,586 | 73,662 | 73,738 | 73,813 | 73,889 | 73,964 | 74,040 | 74,115 |
| 970 | 35,095 | 35,134 | 74,266 | 74,341 | 74,417 | 74,492 | 74,567 | 74,643 | 74,718 | 74,793 | 74,869 |
| 980 | 35,482 | 35,521 | 75,019 | 75,095 | 75,170 | 75,245 | 75,320 | 75,395 | 75,471 | 75,546 | 75,621 |



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|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 990 | 35,869 | 35,908 | 75,771 | 75,847 | 75,922 | 75,997 | 76,072 | 76,147 | 76,223 | 76,298 | 76,373 |
| 1000 | 36,256 | 36,294 | 36,333 | 36,371 | 36,410 | 36,449 | 36,487 | 36,526 | 36,564 | 36,603 | 36,641 |
| 1010 | 36,641 | 36,680 | 36,718 | 36,757 | 36,796 | 36,834 | 36,873 | 36,911 | 36,950 | 36,988 | 37,027 |
| 1020 | 37,027 | 37,065 | 37,104 | 37,142 | 37,181 | 37,219 | 37,258 | 37,296 | 37,334 | 37,373 | 37,411 |
| 1030 | 37,411 | 37,450 | 37,488 | 37,527 | 37,565 | 37,603 | 37,642 | 37,680 | 37,719 | 37,757 | 37,795 |
| 1040 | 37,795 | 37,834 | 37,872 | 37,911 | 37,949 | 37,987 | 38,026 | 38,064 | 38,102 | 38,141 | 38,179 |
| 1050 | 38,179 | 38,217 | 38,256 | 38,294 | 38,332 | 38,370 | 38,409 | 38,447 | 38,485 | 38,524 | 38,562 |
| 1060 | 38,562 | 38,600 | 38,638 | 38,677 | 38,715 | 38,753 | 38,791 | 38,829 | 38,868 | 38,906 | 38,944 |
| 1070 | 38,944 | 38,982 | 39,020 | 39,059 | 39,097 | 39,135 | 39,173 | 39,211 | 39,249 | 39,287 | 39,326 |
| 1080 | 39,326 | 39,364 | 39,402 | 39,440 | 39,478 | 39,516 | 39,554 | 39,592 | 39,630 | 39,668 | 39,706 |
| 1090 | 39,706 | 39,744 | 39,783 | 39,821 | 39,859 | 39,897 | 39,935 | 39,973 | 40,011 | 40,049 | 40,087 |
| 1100 | 40,087 | 40,125 | 40,163 | 40,201 | 40,238 | 40,276 | 40,314 | 40,352 | 40,390 | 40,428 | 40,466 |
| 1110 | 40,466 | 40,504 | 40,542 | 40,580 | 40,618 | 40,655 | 40,693 | 40,731 | 40,769 | 40,807 | 40,845 |
| 1120 | 40,845 | 40,883 | 40,920 | 40,958 | 40,996 | 41,034 | 41,072 | 41,109 | 41,147 | 41,185 | 41,223 |
| 1130 | 41,223 | 41,260 | 41,298 | 41,336 | 41,374 | 41,411 | 41,449 | 41,487 | 41,525 | 41,562 | 41,600 |
| 1140 | 41,600 | 41,638 | 41,675 | 41,713 | 41,751 | 41,788 | 41,826 | 41,864 | 41,901 | 41,939 | 41,976 |
| 1150 | 41,976 | 42,014 | 42,052 | 42,089 | 42,127 | 42,164 | 42,202 | 42,239 | 42,277 | 42,314 | 42,352 |
| 1160 | 42,352 | 42,390 | 42,427 | 42,465 | 42,502 | 42,540 | 42,577 | 42,614 | 42,652 | 42,689 | 42,727 |
| 1170 | 42,727 | 42,764 | 42,802 | 42,839 | 42,877 | 42,914 | 42,951 | 42,989 | 43,026 | 43,064 | 43,101 |
| 1180 | 43,101 | 43,138 | 43,176 | 43,213 | 43,250 | 43,288 | 43,325 | 43,362 | 43,399 | 43,437 | 43,474 |
| 1190 | 43,474 | 43,511 | 43,549 | 43,586 | 43,623 | 43,660 | 43,698 | 43,735 | 43,772 | 43,809 | 43,846 |
| 1200 | 43,846 | 43,884 | 43,921 | 43,958 | 43,995 | 44,032 | 44,069 | 44,106 | 44,144 | 44,181 | 44,218 |
| 1210 | 44,218 | 44,255 | 44,292 | 44,329 | 44,366 | 44,403 | 44,440 | 44,477 | 44,514 | 44,551 | 44,588 |
| 1220 | 44,588 | 44,625 | 44,662 | 44,699 | 44,736 | 44,773 | 44,810 | 44,847 | 44,884 | 44,921 | 44,958 |
| 1230 | 44,958 | 44,995 | 45,032 | 45,069 | 45,105 | 45,142 | 45,179 | 45,216 | 45,253 | 45,290 | 45,326 |
| 1240 | 45,326 | 45,363 | 45,400 | 45,437 | 45,474 | 45,510 | 45,547 | 45,584 | 45,621 | 45,657 | 45,694 |
| 1250 | 45,694 | 45,731 | 45,767 | 45,804 | 45,841 | 45,877 | 45,914 | 45,951 | 45,987 | 46,024 | 46,060 |
| 1260 | 46,060 | 46,097 | 46,133 | 46,170 | 46,207 | 46,243 | 46,280 | 46,316 | 46,353 | 46,389 | 46,425 |
| 1270 | 46,425 | 46,462 | 46,498 | 46,535 | 46,571 | 46,608 | 46,644 | 46,680 | 46,717 | 46,753 | 46,789 |
| 1280 | 46,789 | 46,826 | 46,862 | 46,898 | 46,935 | 46,971 | 47,007 | 47,043 | 47,079 | 47,116 | 47,152 |
| 1290 | 47,152 | 47,188 | 47,224 | 47,260 | 47,296 | 47,333 | 47,369 | 47,405 | 47,441 | 47,477 | 47,513 |
| 1300 | 47,513 | | | | | | | | | | |

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