# D3 Printable Mouse Pad Insert

cut along the dotted line

AUTODESK® HSM CAM

## DECIMAL CHART

| Size | Decimal Equivalent | Size | Decimal Equivalent | Size | Decimal Equivalent | Size | Decimal Equivalent | Size | Decimal Equivalent | Size | Decimal Equivalent | Size | Decimal Equivalent |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | .0135 | 55 | .0520 | 36 | .1065 | 15 | .1800 | 6.5mm | .2559 | S | .3480 | 39/64 | .6094 |
| .35mm | .0138 | 1.35mm | .0531 | 2.75mm | .1083 | 4.6mm | .1811 | F | .2570 | 8.90mm | .3504 | 15.50mm | .6102 |
| 79 | .0145 | 54 | .0550 | 7/64 | .1094 | 14 | .1820 | 6.6mm | .2598 | 9.00mm | .3543 | 5/8 | .6250 |
| 1/64 | .0156 | 1.4mm | .0551 | 35 | .1100 | 13 | .1850 | G | .2610 | T | .3580 | 16.00mm | .6299 |
| .4mm | .0157 | 1.45mm | .0571 | 2.8mm | .1102 | 4.7mm | .1850 | 6.7mm | .2638 | 9.10mm | .3583 | 41/64 | .6406 |
| 78 | .0160 | 1.5mm | .0591 | 34 | .1110 | 4.75mm | .1870 | 17/64 | .2656 | 23/64 | .3594 | 16.50mm | .6496 |
| .45mm | .0177 | 53 | .0595 | 33 | .1130 | 3/16 | .1875 | 6.75mm | .2657 | 9.20mm | .3622 | 21/32 | .6562 |
| 77 | .0180 | 1.55mm | .0610 | 2.9mm | .1142 | 4.8mm | .1890 | H | .2660 | 9.25mm | .3642 | 17.00mm | .6693 |
| .5mm | .0197 | 1/16 | .0625 | 32 | .1160 | 12 | .1890 | 6.8mm | .2677 | 9.30mm | .3661 | 43/64 | .6719 |
| 76 | .0200 | 1.6mm | .0630 | 3mm | .1181 | 11 | .1910 | 6.9mm | .2717 | U | .3680 | 11/16 | .6875 |
| 75 | .0210 | 52 | .0635 | 31 | .1200 | 4.9mm | .1929 | I | .2720 | 9.40mm | .3701 | 17.50mm | .6890 |
| .55mm | .0217 | 1.65mm | .0650 | 3.1mm | .1220 | 10 | .1935 | 7mm | .2756 | 9.50mm | .3740 | 45/64 | .7031 |
| 74 | .0225 | 1.7mm | .0669 | 1/8 | .1250 | 9 | .1960 | J | .2770 | 3/8 | .3750 | 18.00mm | .7087 |
| .6mm | .0236 | 51 | .0670 | 3.2mm | .1260 | 5mm | .1969 | 7.1mm | .2795 | V | .3770 | 23/32 | .7188 |
| 73 | .0240 | 1.75mm | .0689 | 3.25mm | .1280 | 8 | .1990 | K | .2810 | 9.60mm | .3780 | 18.50mm | .7283 |
| 72 | .0250 | 50 | .0700 | 30 | .1285 | 5.1mm | .2008 | 9/32 | .2812 | 9.70mm | .3819 | 47/64 | .7344 |
| .65mm | .0256 | 1.8mm | .0709 | 3.3mm | .1299 | 7 | .2010 | 7.2mm | .2835 | 9.75mm | .3839 | 19.00mm | .7480 |
| 71 | .0260 | 1.85mm | .0728 | 3.4mm | .1339 | 13/64 | .2031 | 7.25mm | .2854 | 9.80mm | .3858 | 3/4 | .7500 |
| .7mm | .0276 | 49 | .0730 | 29 | .1360 | 6 | .2040 | 7.3mm | .2874 | W | .3860 | 49/64 | .7656 |
| 70 | .0280 | 1.9mm | .0748 | 3.5mm | .1378 | 5.2mm | .2047 | L | .2900 | 9.90mm | .3898 | 19.50mm | .7677 |
| 69 | .0292 | 48 | .0760 | 28 | .1405 | 5 | .2055 | 7.4mm | .2913 | 25/64 | .3906 | 25/32 | .7812 |
| .75mm | .0295 | 1.95mm | .0768 | 9/64 | .1406 | 5.25mm | .2067 | M | .2950 | 10.00mm | .3937 | 20.00mm | .7874 |
| 68 | .0310 | 5/64 | .0781 | 3.6mm | .1417 | 5.3mm | .2087 | 7.5mm | .2953 | X | .3970 | 51/64 | .7969 |
| 1/32 | .0312 | 47 | .0785 | 27 | .1440 | 4 | .2090 | 19/64 | .2969 | Y | .4040 | 20.50mm | .8071 |
| .8mm | .0315 | 2mm | .0787 | 3.7mm | .1457 | 5.4mm | .2126 | 7.6mm | .2992 | 13/32 | .4062 | 13/16 | .8125 |
| 67 | .0320 | 2.05mm | .0807 | 26 | .1470 | 3 | .2130 | N | .3020 | Z | .4130 | 21.00mm | .8268 |
| 66 | .0330 | 46 | .0810 | 3.75mm | .1476 | 5.5mm | .2165 | 7.7mm | .3031 | 10.50mm | .4134 | 53/64 | .8281 |
| .85mm | .0335 | 45 | .0820 | 25 | .1495 | 7/32 | .2188 | 7.75mm | .3051 | 27/64 | .4219 | 27/32 | .8438 |
| 65 | .0350 | 2.1mm | .0827 | 3.8mm | .1496 | 5.6mm | .2205 | 7.8mm | .3071 | 11.00mm | .4331 | 21.50mm | .8465 |
| .9mm | .0354 | 2.15mm | .0846 | 24 | .1520 | 2 | .2210 | 7.9mm | .3110 | 7/16 | .4375 | 55/64 | .8594 |
| 64 | .0360 | 44 | .0860 | 3.9mm | .1535 | 5.7mm | .2244 | 5/16 | .3125 | 11.50mm | .4528 | 22.00mm | .8661 |
| 63 | .0370 | 2.2mm | .0866 | 23 | .1540 | 5.75mm | .2264 | 8mm | .3150 | 29/64 | .4531 | 7/8 | .8750 |
| .95mm | .0374 | 2.25mm | .0886 | 5/32 | .1562 | 1 | .2280 | O | .3160 | 15/32 | .4688 | 22.50mm | .8858 |
| 62 | .0380 | 43 | .0890 | 22 | .1570 | 5.8mm | .2283 | 8.1mm | .3189 | 12.00mm | .4724 | 57/64 | .8906 |
| 61 | .0390 | 2.3mm | .0906 | 4mm | .1575 | 5.9mm | .2323 | 8.2mm | .3228 | 31/64 | .4844 | 23.00mm | .9055 |
| 1mm | .0394 | 2.35mm | .0925 | 21 | .1590 | A | .2340 | P | .3230 | 12.50mm | .4921 | 29/32 | .9062 |
| 60 | .0400 | 42 | .0935 | 20 | .1610 | 15/64 | .2344 | 8.25mm | .3248 | 1/2 | .5000 | 59/64 | .9219 |
| 59 | .0410 | 3/32 | .0938 | 4.1mm | .1614 | 6mm | .2362 | 8.3mm | .3268 | 13.00mm | .5118 | 23.50mm | .9252 |
| 1.05mm | .0413 | 2.4mm | .0945 | 4.2mm | .1654 | B | .2380 | 21/64 | .3281 | 33/64 | .5156 | 15/16 | .9375 |
| 58 | .0420 | 41 | .0960 | 19 | .1660 | 6.1mm | .2402 | 8.4mm | .3307 | 17/32 | .5312 | 24.00mm | .9449 |
| 57 | .0430 | 2.45mm | .0965 | 4.25mm | .1673 | C | .2420 | Q | .3320 | 13.50mm | .5315 | 61/64 | .9531 |
| 1.1mm | .0433 | 40 | .0980 | 4.3mm | .1693 | 6.2mm | .2441 | 8.5mm | .3346 | 35/64 | .5469 | 24.50mm | .9646 |
| 1.15mm | .0453 | 2.5mm | .0984 | 18 | .1695 | D | .2460 | 8.6mm | .3386 | 14.00mm | .5512 | 31/32 | .9688 |
| 56 | .0465 | 39 | .0995 | 11/64 | .1719 | 6.25mm | .2461 | R | .3390 | 9/16 | .5625 | 25.00mm | .9843 |
| 3/64 | .0469 | 38 | .1015 | 17 | .1730 | 6.3mm | .2480 | 8.7mm | .3425 | 14.50mm | .5709 | 63/64 | .9844 |
| 1.2mm | .0472 | 2.6mm | .1024 | 4.4mm | .1732 | E | .2500 | 11/32 | .3438 | 37/64 | .5781 | 1.0000 | 1.0000 |
| 1.25mm | .0492 | 37 | .1040 | 16 | .1770 | 1/4 | .2500 | 8.75mm | .3445 | 15.00mm | .5906 | | |
| 1.3mm | .0512 | 2.7mm | .1063 | 4.5mm | .1772 | 6.4mm | .2520 | 8.8mm | .3465 | 19/32 | .5938 | | |

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## TAP DRILL SIZES

| Tap Size | Drill Size | Tap Size | Drill Size | Tap Size | Drill Size | Tap Size | Drill Size |
|---|---|---|---|---|---|---|---|
| 0 - 80 | 3/64 | 6 - 40 | 33 | 3/8 - 24 | Q | 7/8 - 9 | 49/64 |
| M1.6 x .35 | 1.25mm | M4 x .7 | 3.3mm | M10 x 1.5 | 8.5mm | 7/8 - 14 | 13/16 |
| 1 - 64 | 53 | 8 - 32 | 29 | 7/16 - 14 | U | M24 x 3 | 56/64 |
| M2 x .4 | 1/16 | 8 - 36 | 29 | 7/16-20 | 25/64 | 1 - 8 | 7/8 |
| 1 - 72 | 53 | 10 - 24 | 25 | M12 x 1.75 | 13/32 | 1 - 12 | 56/64 |
| 2 - 56 | 50 | 10 - 32 | 21 | 1/2 - 13 | 27/64 | 1 - 14 | 15/16 |
| 2 - 64 | 50 | M5 x .8 | 4.2mm | 1/2 - 20 | 29/64 | 1-1/8-7 | 63/64 |
| M2.5 x .45 | 2.05mm | 12 - 24 | 16 | M14 x 2 | 15/32 | 1-1/8-12 | 1 - 3/64 |
| 3 - 48 | 5/64 | 12 - 28 | 4mm | 9/16 - 12 | 31/64 | M30 x 3.5 | 26.5mm |
| 3 - 56 | 46 | M6 x 1 | 5mm | 9/16 - 18 | 33/64 | 1-1/4-7 | 1 - 7/64 |
| 4 - 40 | 43 | 1/4 - 20 | 7 | 5/8 - 11 | 17/32 | 1-1/4-12 | 1 - 11/64 |
| 4 - 48 | 42 | 1/4 - 28 | 3 | 5/8 - 18 | 37/64 | 1-3/8-6 | 1 - 7/32 |
| M3 x .5 | 40 | 5/16 - 18 | F | M16 x 2 | 35/64 | 1-3/8-12 | 1 - 19/64 |
| 5 - 40 | 38 | 5/16 - 24 | I | 3/4 - 10 | 21/32 | M36 x 4 | 32mm |
| 5 - 44 | 37 | M8 x 1.25 | 6.7mm | 3/4 - 16 | 11/16 | 1-1/2-6 | 1 - 11/32 |
| M3.5 x .6 | 2.9mm | 3/8 - 16 | 5/16 | M20 x 2.5 | 11/16 | 1-1/2-12 | 1 - 27/64 |
| 6 - 32 | 36 | | | | | | |

## PIPE TAP DRILL SIZES

| Tap Size | Taper Pipe NPT | Straight Pipe NPS |
|---|---|---|
| 1/16-27 | D | 1/4 |
| 1/8-27 | 11/32 | 11/32 |
| 1/4-18 | 7/16 | 7/16 |
| 3/8-18 | 37/64 | 37/64 |
| 1/2-14 | 23/32 | 23/32 |
| 3/4-14 | 59/64 | 59/64 |
| 1-11-1/2 | 1-5/32 | 1-5/32 |
| 1-1/4-11-1/2 | 1-1/2 | 1-1/2 |
| 1-1/2-11-1/2 | 1-3/4 | 1-3/4 |
| 2-11-1/2 | 2-7/32 | 2-7/32 |

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