



03 - measures, conversion tables

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INTERNATIONAL SYSTEM OF UNITS - TABLE

| Size | Name | Symbol |
|-----------------------|-----------------------------|------------------------|
| Lenght | Meter | m |
| Area | square meter | m ² |
| Volume | cubic meter | m ³ |
| Force | Newton | N |
| Mass | kilogram | Kg |
| Pressure | Pascal | Pa (N/m ²) |
| Work and Energy | Joule | J (Nm) |
| Power | Watt | W (J/s) |
| Time | Second | s |
| Speed | meter / second | m/s |
| Acceleration | meter / second ² | m/s ² |
| Flow rate | meter ³ /second | m ³ /s |
| Temperature | Kelvin | °K |
| Frequency | Hertz | Hz (1/s) |
| Electric current | Ampere | A |
| Voltage | Volt | V (W/A) |
| Electrical resistance | Ohm | Ω (V/A) |
| Electric power | Volt Ampere | VA (VA) |

MEASURE AND CONVERSION UNITS

| Length | centimetre (cm) | meter (m) | inch (in) | Foot (ft) | yard (yd) |
|---------------|-----------------|-----------------------|-----------|-----------------------|-----------|
| 1 meter (m) | 100 | 1 | 39,37 | 3,281 | 1,094 |
| 1 inch (in) | 2,54 | $2,54 \times 10^{-2}$ | 1 | $8,33 \times 10^{-2}$ | 0,028 |
| 1 foot (ft) | 30,48 | 0,3048 | 12 | 1 | 0,333 |
| 1 yard (yd) | 91,44 | 0,9144 | 36 | 3 | 1 |

| Area | square centimetre (cm ²) | square meter (m ²) | square inch (sq in) | square foot (sq ft) | square yard (sq yd) |
|--|--------------------------------------|--------------------------------|---------------------|-----------------------|-----------------------|
| 1 square centimetre (cm ²) | 1 | 1×10^{-4} | 0,155 | $1,08 \times 10^{-3}$ | $1,2 \times 10^{-4}$ |
| 1 square meter (m ²) | 1×10^4 | 1 | 1.550 | 10,764 | 1,2 |
| 1 square inch (sq in) | 6,452 | $6,45 \times 10^{-4}$ | 1 | $6,95 \times 10^{-3}$ | $7,72 \times 10^{-4}$ |
| 1 square foot (sq ft) | 929 | $9,29 \times 10^{-2}$ | 144 | 1 | 0,111 |
| 1 square yard (sq yd) | 8.361 | 0,8361 | 1.296 | 9 | 1 |

| Volume | Litre (l = dm ³) | cubic metre (m ³) | cubic inch (cu in) | cubic foot (cu ft) | Gallon (gal - USA) | Gallon (gal - GBr) |
|---------------------------------|------------------------------|-------------------------------|---------------------|-----------------------|-----------------------|----------------------|
| 1 liter (l) = 1dm ³ | 1 | 1×10^{-3} | 61,02 | $3,53 \times 10^{-2}$ | 0,2642 | 0,22 |
| 1 cubic meter (m ³) | 1.000 | 1 | $6,102 \times 10^4$ | 35,31 | 264,2 | 220 |
| 1 cubic inch (cu in) | $1,64 \times 10^{-2}$ | $1,64 \times 10^{-5}$ | 1 | $5,8 \times 10^{-4}$ | $4,33 \times 10^{-3}$ | $3,6 \times 10^{-3}$ |
| 1 cubic foot (cu ft) | 28,317 | $2,83 \times 10^{-2}$ | 1.728 | 1 | 7,48 | 6,23 |
| 1 Gallon (gal -USA) | 3,785 | $3,79 \times 10^{-3}$ | 231 | 0,1337 | 1 | 0,8327 |
| 1 Gallon (gal -GB) | 4,546 | $4,55 \times 10^{-3}$ | 277,4 | 0,1605 | 1,2 | 1 |

| Mass (Weight) | kilogram (Kg) | Pound (lb) | hundred-weight USA | hundred-weight GB |
|----------------------|---------------|------------|------------------------|------------------------|
| 1 kilogram (Kg) | 1 | 2,205 | $1,102 \times 10^{-3}$ | $9,842 \times 10^{-4}$ |
| 1 pound (lb) | 0,4536 | 1 | 5×10^{-4} | $4,464 \times 10^{-4}$ |
| 1 hundred-weight USA | 907,2 | 2.000 | 1 | 0,8929 |
| 1 hundred-weight GB | 1.016 | 2.240 | 1,12 | 1 |

| Force | Newton (N) | Kilopound (kcp) | Poundal (pdl) |
|-------------------|------------|-----------------|---------------|
| 1 Newton (N) | 1 | 0,102 | 7,23 |
| 1 Kilopound (kcp) | 9,807 | 1 | 70,93 |
| 1 Poundal (pdl) | 0,1383 | 0,0141 | 1 |

| Pressure | Pascal (Pa) | Bar (bar) | Poundal/pollice ² (psi) | Technical atmosphere (at = kg/cm ²) | Atmosphere (atm) | Column of Mercury (mmHg = Torr) | Column of water (mH ₂ O) |
|---|---------------------|-----------------------|------------------------------------|---|------------------------|---------------------------------|-------------------------------------|
| 1 Pascal (Pa) | 1 | 1×10^{-5} | $1,45 \times 10^{-4}$ | $1,02 \times 10^{-5}$ | $9,87 \times 10^{-6}$ | $7,5 \times 10^{-3}$ | $1,02 \times 10^{-4}$ |
| 1 Bar (bar) | 1×10^5 | 1 | 14,50 | 1,02 | 0,9869 | 750 | 10,2 |
| 1 Poundal/pollice ² (psi) | 6.895 | 0,069 | 1 | $7,03 \times 10^{-2}$ | 0,06805 | 51,72 | 0,703 |
| 1 Technical atmosphere (at = kg/cm ²) | $9,807 \times 10^4$ | 0,9807 | 14,22 | 1 | 0,9678 | 735,6 | 10 |
| 1 Atmosphere (atm) | $1,013 \times 10^5$ | 1,013 | 14,70 | 1,033 | 1 | 760 | 10,33 |
| 1 mm di mercurio (mmHg = Torr) | 133,32 | $1,34 \times 10^{-3}$ | $1,934 \times 10^{-2}$ | $1,36 \times 10^{-3}$ | $1,316 \times 10^{-3}$ | 1 | $1,36 \times 10^{-2}$ |
| 1 metro di acqua (mH ₂ O) | 9.810 | $9,81 \times 10^{-2}$ | 1,423 | 0,1 | $9,682 \times 10^{-2}$ | 73,6 | 1 |

| Work and Energy | Kilocalorie (kcal) | Kilogrammetre (kgm) | Kilowatt (kWh) | Horse power / hr (Hph) - non Metric | Joule (J) |
|------------------------------------|-----------------------|---------------------|------------------------|-------------------------------------|---------------------|
| 1 Kilocalorie (kcal) | 1 | 427 | $1,163 \times 10^{-3}$ | $1,561 \times 10^{-3}$ | 4.190 |
| 1 Kilogrammetre (kgm) | $2,34 \times 10^{-3}$ | 1 | $2,724 \times 10^{-6}$ | $3,653 \times 10^{-6}$ | 9,806 |
| 1 kilowatt-hour (kWh) | 860 | 367.122 | 1 | 1,341 | $3,6 \times 10^5$ |
| 1 Horsepower/hour-non metric (hph) | 641 | 273.761 | 0,7457 | 1 | $2,685 \times 10^6$ |
| 1 Joule (J) | $2,39 \times 10^{-4}$ | 0,102 | $2,78 \times 10^{-7}$ | $3,725 \times 10^{-7}$ | 1 |

| Temperature | Kelvin (K) | Celsius (°C) | Fahrenheit (°F) |
|--------------------|----------------------------------|------------------|------------------|
| Kelvin (K) | / | K-273 = °C | (K-273)x1,8 = °F |
| Celsius (°C) | °C+273 = K | / | (°Cx1,8)+32 = °F |
| Fahrenheit (°F) | $273 + [(\text{°F}-32):1,8] = K$ | (°F-32):1,8 = °C | / |

SPECIFIC GRAVITY AND FUSION TEMPERATURE

SOLID Substances

| Substance | Chemical abbreviation | Specific gravity (Kg/dm ³) | Fusion temperature (°C) |
|-------------------|-----------------------|--|-------------------------|
| Unalloyed steel | | 7,8 | 1480 |
| Stainless steel | | 7,8 | 1450 |
| Tungsten steel | | 8,7 | 1450 |
| Aluminium | Al | 2,7 | 660 |
| Nickel silver | | 8,6 | 1050 |
| Antimony | Sb | 6,67 | 630 |
| Silver | Ag | 10,5 | 960 |
| Bronze | 94 Cu 6 Sn | 7,4+8,9 | 900 |
| Antiacid Bronze | | 8,78 | 990 |
| Cadmium | Cd | 8,64 | 321 |
| Calcium | Ca | 1,55 | 851 |
| Cement | | 1,65 | - |
| Cobalt | | 8,9 | 1490 |
| Corundum | | 3,9+4,0 | 2050 |
| Chromium | Cr | 7,1 | 1890 |
| Diamond | C | 3,51 | ~ 3500 |
| Iron | Fe | 7,86 | 1539 |
| Cast iron | | 7,25 | 1150+1250 |
| Rubber | | 1,1 | - |
| Manganese | Mn | 7,3 | 1260 |
| Magnesium | Mg | 1,75 | 650 |
| White metal | | 7,5+10,1 | 300 ... 400 |
| Hard metal K10 | | 14,7 | > 2000 |
| Hard metal P10 | | 11,1 | > 2000 |
| Mica | | 2,6+3,6 | ~ 1300 |
| Molybdenum | Mo | 10,2 | 2600 |
| Nichel | Ni | 8,85 | 1450 |
| Gold | Au | 19,83 | 1063 |
| Iron oxide | | 5,1 | 1565 |
| Brass 63/37 | | 8,5 | 900+1000 |
| Paraffin | | 0,92 | 54 |
| Lead | Pb | 11,34 | 327 |
| Synthetic plastic | | 1,4+1,5 | - |
| Platinum | | 21,45 | 1775 |
| Copper | Cu | 8,93 | 1085 |
| Emery | | 4 | 2200 |
| Tin | Sn | 7,28 | 232 |
| Titanium | Ti | 4,6 | 3380 |
| Tungsten | W | 19,3 | 3370 |
| Vanadium | V | 6,1 | 1800 |
| Zinco | Zn | 7,15 | 420 |
| Die-cast zinc | | 6,8 | 390 |

LIQUID Substances

| Substance | Chemical abbreviation | Specific gravity (Kg/dm ³) | Fusion temperature (°C) |
|-------------------|-----------------------|--|-------------------------|
| Distilled water | | 1 | 0 |
| Ethanol | | 0,79 | -117 |
| Gasoline | | 0,68+0,75 | -30 ÷ -50 |
| Pure benzol | | 0,88 | 64 |
| Gas oil | | 0,88+1 | -5 |
| Mercury | Hg | 13,59 | -38,9 |
| Lube oil | | 0,91 | -20 |
| Machine oil | | 0,91 | -5 |
| Petroleum | | 0,81 | -70 |
| Perchloroethylene | | 1,62 | |

GASEOUS Substances

| Substance | Chemical abbreviation | Specific gravity (Kg/dm ³) | Fusion temperature (°C) |
|-------------------|-------------------------------|--|-------------------------|
| Acetylene | C ₂ H ₂ | 0,91 | -81 |
| Carbon dioxide | CO ₂ | 1,53 | -57 |
| Air | | 1 | -220 |
| Nitrogen | N ₂ | 0,97 | -210 |
| Illumination gas | | 0,47 | -230 |
| Hydrogen | H ₂ | 0,07 | -257 |
| Neon | Ne | 0,69 | -249 |
| Carbon monoxide | CO | 0,97 | -205 |
| Oxygen | O ₂ | 1,1 | -218 |
| Water vapor 100°C | | 0,62 | 0 |

ISO METRIC THREAD UNI 4535-64

Coarse ISO metric thread

| Thread | Pitch (mm) | Ø Drilling (mm) | Ø Drill point (mm) |
|--------|------------|-----------------|--------------------|
| M 1,6 | 0,35 | 1,321 | 1,20 |
| M 1,8 | 0,35 | 1,521 | 1,45 |
| M 2 | 0,40 | 1,679 | 1,60 |
| M 2,2 | 0,45 | 1,838 | 1,75 |
| M 2,5 | 0,45 | 2,138 | 2,05 |
| M 3 | 0,50 | 2,599 | 2,5 |
| M 3,5 | 0,60 | 3,010 | 2,9 |
| M 4 | 0,70 | 3,422 | 3,3 |
| M 4,5 | 0,75 | 3,878 | 3,7 |
| M 5 | 0,80 | 4,334 | 4,2 |
| M 6 | 1 | 5,153 | 5 |
| M 7 | 1 | 6,153 | 6 |
| M 8 | 1,25 | 6,912 | 6,8 |
| M 9 | 1,25 | 7,912 | 7,8 |
| M 10 | 1,5 | 8,676 | 8,5 |
| M 11 | 1,5 | 9,676 | 9,5 |
| M 12 | 1,75 | 10,441 | 10,2 |
| M 14 | 2 | 12,210 | 12 |
| M 16 | 2 | 14,210 | 14 |
| M 18 | 2,5 | 15,744 | 15,5 |
| M 20 | 2,5 | 17,744 | 17,5 |
| M 22 | 2,5 | 19,744 | 19,5 |
| M 24 | 3 | 21,252 | 21 |
| M 27 | 3 | 24,252 | 24 |
| M 30 | 3,5 | 26,771 | 26,5 |
| M 33 | 3,5 | 29,771 | 29,5 |
| M 36 | 4 | 32,270 | 32 |
| M 39 | 4 | 35,270 | 35 |
| M 42 | 4,5 | 37,799 | 37,5 |
| M 45 | 4,5 | 40,799 | 40,5 |
| M 48 | 5 | 43,297 | 43 |
| M 52 | 5 | 47,297 | 47 |
| M 56 | 5,5 | 50,796 | 50,5 |
| M 60 | 5,5 | 54,796 | 54,5 |
| M 64 | 6 | 58,305 | 58 |
| M 68 | 6 | 62,305 | 62 |

Fine ISO metric thread

| Thread | Pitch (mm) | Ø Drilling (mm) | Ø Drill point (mm) |
|--------|------------|-----------------|--------------------|
| M 3 | 0,35 | 2,721 | 2,65 |
| M 4 | 0,50 | 3,599 | 3,5 |
| M 5 | 0,50 | 4,599 | 4,5 |
| M 6 | 0,75 | 5,378 | 5,2 |
| M 7 | 0,75 | 6,378 | 6,2 |
| M 8 | 0,75 | 7,378 | 7,2 |
| M 8 | 1 | 7,153 | 7 |
| M 9 | 1 | 8,153 | 8 |
| M10 | 0,75 | 9,378 | 9,2 |
| M 10 | 1 | 9,153 | 9 |
| M 10 | 1,25 | 8,912 | 8,8 |
| M 11 | 1 | 10,153 | 10 |
| M 12 | 1 | 11,153 | 11 |
| M 12 | 1,25 | 10,912 | 10,8 |
| M 12 | 1,5 | 10,676 | 10,5 |
| M 14 | 1 | 13,153 | 13 |
| M 14 | 1,25 | 12,912 | 12,8 |
| M 14 | 1,5 | 12,676 | 12,5 |
| M 15 | 1 | 14,153 | 14 |
| M 15 | 1,5 | 13,676 | 13,5 |
| M 16 | 1 | 15,153 | 15 |
| M 16 | 1,5 | 14,676 | 14,5 |
| M 18 | 1 | 17,153 | 17 |
| M 18 | 1,5 | 16,676 | 16,5 |
| M 18 | 2 | 16,210 | 16 |
| M 20 | 1 | 19,153 | 19 |
| M 20 | 1,5 | 18,676 | 18,5 |
| M 20 | 2 | 18,210 | 18 |
| M 22 | 1 | 21,153 | 21 |
| M 22 | 1,5 | 20,676 | 20,5 |
| M 21 | 2 | 20,210 | 20 |
| M 24 | 1 | 23,153 | 23 |
| M 24 | 1,5 | 22,676 | 22,5 |
| M 24 | 2 | 22,210 | 22 |
| M 24 | 1 | 24,153 | 24 |
| M 25 | 1,5 | 23,676 | 23,5 |
| M 26 | 1,5 | 24,676 | 24,5 |
| M 27 | 1,5 | 25,676 | 25,5 |
| M 27 | 2 | 25,210 | 25 |
| M 28 | 1,5 | 26,676 | 26,5 |
| M 30 | 1,5 | 28,676 | 28,5 |
| M 30 | 2 | 28,210 | 28 |
| M 32 | 1,5 | 30,676 | 30,5 |
| M 33 | 2 | 31,210 | 31 |
| M 35 | 1,5 | 33,676 | 33,5 |
| M 36 | 1,5 | 34,676 | 34,5 |
| M 36 | 2 | 34,210 | 34 |
| M 36 | 3 | 33,252 | 33 |
| M 38 | 1,5 | 36,676 | 36,5 |
| M 39 | 3 | 36,252 | 36 |
| M 40 | 1,5 | 38,676 | 38,5 |
| M 42 | 1,5 | 40,676 | 40,5 |
| M 45 | 1,5 | 43,676 | 43,5 |
| M 50 | 1,5 | 48,676 | 48,5 |

WHITWORTH THREAD UNI 2709
«W»

| Thread | Ø External (mm) | Ø Drilling (mm) | Ø Drill point (mm) |
|----------------|-----------------|-----------------|--------------------|
| W 1/16" - 60 | 1,588 | 1,18 | 1,2 |
| W 3/32" - 48 | 2,381 | 1,87 | 1,9 |
| W 1/8" - 40 | 3,175 | 2,56 | 2,6 |
| W 5/32" - 32 | 3,969 | 3,21 | 3,2 |
| W 3/16" - 24 | 4,762 | 3,74 | 3,8 |
| W 7/32" - 24 | 5,556 | 4,54 | 4,6 |
| W 1/4" - 20 | 6,350 | 5,13 | 5,2 |
| W 5/16" - 18 | 7,938 | 6,58 | 6,6 |
| W 3/8" - 16 | 9,525 | 8,01 | 8,0 |
| W 7/16" - 14 | 11,112 | 9,37 | 9,4 |
| W 1/2" - 12 | 12,700 | 10,66 | 10,5 |
| W 9/16" - 12 | 14,288 | 12,25 | 12,0 |
| W 5/8" - 11 | 15,875 | 13,66 | 13,5 |
| W 3/4" - 10 | 19,050 | 16,61 | 16,5 |
| W 7/8" - 9 | 22,225 | 19,51 | 19,5 |
| W 1" - 8 | 25,400 | 22,35 | 22,5 |
| W 1 1/8" - 7 | 28,575 | 25,09 | 25,0 |
| W 1 1/4" - 7 | 31,750 | 28,26 | 28,0 |
| W 1 3/8" - 6 | 34,925 | 30,86 | 31,0 |
| W 1 1/2" - 6 | 38,100 | 34,03 | 34,0 |
| W 1 5/8" - 5 | 41,275 | 36,39 | 36,5 |
| W 1 3/4" - 5 | 44,450 | 39,56 | 39,5 |
| W 1 7/8" - 4,5 | 47,625 | 42,20 | 42,0 |
| W 2" - 4,5 | 50,800 | 45,37 | 45,5 |
| W 2 1/4" - 4 | 57,150 | 51,04 | 51,0 |
| W 2 1/2" - 4 | 63,500 | 57,39 | 57,5 |
| W 2 3/4" - 3,5 | 69,850 | 62,87 | 63,0 |
| W 3" - 3 | 76,200 | 69,22 | 69,5 |

«BSF»

| Thread | Ø External (mm) | Ø Drilling (mm) | Ø punta (mm) |
|--------------|-----------------|-----------------|--------------|
| W 3/16" - 32 | 4,762 | 4,00 | 4,0 |
| W 7/32" - 28 | 5,556 | 4,69 | 4,7 |
| W 1/4" - 26 | 6,350 | 5,41 | 5,4 |
| W 5/16" - 22 | 7,938 | 6,83 | 6,8 |
| W 3/8" - 20 | 9,525 | 8,30 | 8,3 |
| W 7/16" - 18 | 11,113 | 9,76 | 9,8 |
| W 1/2" - 16 | 12,700 | 11,17 | 11,0 |
| W 9/16" - 16 | 14,288 | 12,76 | 12,5 |
| W 5/8" - 14 | 15,875 | 14,13 | 14,0 |
| W 3/4" - 12 | 19,050 | 17,01 | 17,0 |
| W 7/8" - 11 | 22,225 | 20,00 | 20,0 |
| W 1" - 10 | 25,400 | 22,96 | 23,0 |
| W 1 1/8" - 9 | 28,575 | 25,86 | 26,0 |
| W 1 1/4" - 9 | 31,750 | 29,04 | 29,0 |
| W 1 3/8" - 8 | 34,925 | 31,87 | 32,0 |
| W 1 1/2" - 8 | 38,100 | 35,05 | 35,0 |
| W 1 5/8" - 8 | 41,275 | 38,22 | 38,0 |
| W 1 3/4" - 7 | 44,450 | 40,96 | 41,0 |
| W 1 7/8" - 7 | 47,625 | 44,14 | 44,0 |
| W 2" - 7 | 50,800 | 47,31 | 47,5 |
| W 2 1/4" - 6 | 57,150 | 53,08 | 53,0 |
| W 2 1/2" - 6 | 63,500 | 59,43 | 59,5 |
| W 2 3/4" - 6 | 69,850 | 65,78 | 66,0 |
| W 3" - 5 | 76,200 | 71,32 | 71,5 |

GAS THREAD
«G» UNI 338-66

| Thread | Ø External (mm) | Ø Drilling (mm) | Ø Drill point (mm) |
|---------------|-----------------|-----------------|--------------------|
| G 1/8" - 28 | 9,73 | 8,68 | 8,70 |
| G 1/4" - 19 | 13,16 | 11,62 | 11,75 |
| G 3/8" - 19 | 16,66 | 15,12 | 15,25 |
| G 1/2" - 14 | 20,95 | 18,86 | 19,00 |
| G 5/8" - 14 | 22,91 | 20,82 | 21,00 |
| G 3/4" - 14 | 26,44 | 24,35 | 24,50 |
| G 7/8" - 14 | 30,20 | 28,11 | 28,25 |
| G 1" - 11 | 33,25 | 30,59 | 30,50 |
| G 1 1/8" - 11 | 37,90 | 35,24 | 35,50 |
| G 1 1/4" - 11 | 41,91 | 39,25 | 39,50 |
| G 1 3/8" - 11 | 44,32 | 41,66 | 41,50 |
| G 1 1/2" - 11 | 47,80 | 45,14 | 45,00 |
| G 1 5/8" - 11 | 51,32 | 48,67 | 48,50 |
| G 1 3/4" - 11 | 53,75 | 51,08 | 51,00 |
| G 2" - 11 | 59,61 | 56,95 | 57,00 |
| G 2 1/4" - 11 | 65,71 | 63,05 | 63,00 |
| G 2 1/2" - 11 | 75,18 | 72,52 | 72,50 |
| G 2 3/4" - 11 | 81,53 | 78,87 | 79,00 |
| G 3" - 11 | 87,88 | 85,22 | 85,50 |
| G 3 1/4" - 11 | 93,98 | 91,32 | 91,50 |
| G 3 1/2" - 11 | 100,33 | 97,67 | 97,50 |
| G 3 3/4" - 11 | 106,68 | 104,02 | 104,00 |
| G 4" - 11 | 113,03 | 110,37 | 110,50 |

«Gc» UNI 339-66

| Thread | Ø External (mm) | Ø Drilling (mm) | Ø punta (mm) |
|--------------|-----------------|-----------------|--------------|
| Gc 1/8"-28 | 8,5 | 4,9 | 3,1 |
| Gc 1/4"-19 | 11,5 | 7,3 | 4,7 |
| Gc 3/8"-19 | 15,0 | 7,7 | 5,1 |
| Gc 1/2"-14 | 18,5 | 10,0 | 6,4 |
| Gc 3/4"-14 | 23,5 | 11,3 | 7,7 |
| Gc 1"-11 | 30,0 | 12,7 | 8,1 |
| Gc 1 1/4"-11 | 38,0 | 15,0 | 10,4 |
| Gc 1 3/8"-11 | 41,0 | 15,0 | 10,4 |
| Gc 1 1/2"-11 | 44,5 | 15,0 | 10,4 |
| Gc 2"-11 | 56,0 | 18,2 | 13,6 |
| Gc 2 1/2"-11 | 72,0 | 21,0 | 14,0 |
| Gc 3"-11 | 85,0 | 24,1 | 17,1 |
| | | max | min |

AMERICAN THREAD

Standard «NC» and «UNC»

| Thread | Ø External (mm) | Ø Drilling (mm) | Ø Drill point (mm) |
|---------------|-----------------|-----------------|--------------------|
| UNC No. 1-64 | 1,854 | 1,425 | 1,582 |
| UNC No. 2-56 | 2,184 | 1,694 | 1,872 |
| UNC No. 3-48 | 2,515 | 1,941 | 2,136 |
| UNC No. 4-40 | 2,845 | 2,156 | 2,383 |
| UNC No. 5-40 | 3,175 | 2,487 | 2,697 |
| UNC No. 6-32 | 3,505 | 2,647 | 2,909 |
| UNC No. 8-32 | 4,166 | 3,307 | 3,515 |
| UNC No. 10-24 | 4,826 | 3,680 | 3,960 |
| UNC No. 12-24 | 5,486 | 4,341 | 4,575 |
| UNC 1/4"-20 | 6,350 | 4,976 | 5,232 |
| UNC 5-16"-18 | 7,938 | 6,411 | 6,680 |
| UNC 3/8"-16 | 9,525 | 7,805 | 8,087 |
| UNC 7/16"-14 | 11,112 | 9,149 | 9,451 |
| UNC 1/2"-13 | 12,700 | 10,584 | 10,896 |
| UNC 9/16"-12 | 14,288 | 11,996 | 12,319 |
| UNC 5/8"-11 | 15,875 | 13,376 | 13,709 |
| UNC 3/4"-10 | 19,050 | 16,299 | 16,644 |
| UNC 7/8"-9 | 22,225 | 19,169 | 19,530 |
| UNC 1"-8 | 25,400 | 21,963 | 22,339 |
| UNC 1 1/8"-7 | 28,575 | 24,648 | 25,039 |
| UNC 1 1/4"-7 | 31,750 | 27,823 | 28,214 |
| UNC 1 3/8"-6 | 34,925 | 30,343 | 30,800 |
| UNC 1 1/2"-6 | 38,100 | 33,518 | 33,975 |

fine «NF» and «UNF»

| Thread | Ø External (mm) | Ø Drilling (mm) | | Ø Drill point (mm) |
|---------------|-----------------|-----------------|--------|--------------------|
| UNF No. 0-80 | 1,524 | 1,181 | 1,306 | 1,3 |
| UNF No. 1-72 | 1,854 | 1,473 | 1,613 | 1,6 |
| UNF No. 2-64 | 2,184 | 1,755 | 1,913 | 1,9 |
| UNF No. 3-56 | 2,515 | 2,024 | 2,174 | 2,1 |
| UNF No. 4-48 | 2,845 | 2,271 | 2,438 | 2,35 |
| UNF No. 5-44 | 3,175 | 2,550 | 2,713 | 2,65 |
| UNF No. 6-40 | 3,505 | 2,817 | 2,995 | 2,9 |
| UNF No. 8-36 | 4,166 | 3,401 | 3,561 | 3,5 |
| UNF No. 10-32 | 4,826 | 3,967 | 4,125 | 4 |
| UNF No. 12-28 | 5,486 | 4,503 | 4,466 | 4,6 |
| UNF 1/4"-28 | 6,350 | 5,367 | 5,519 | 5,4 |
| UNF 5/16"-24 | 7,938 | 6,792 | 6,957 | 6,7 |
| UNF 3/8"-24 | 9,525 | 8,379 | 8,545 | 8,4 |
| UNF 7/16"-20 | 11,112 | 9,738 | 9,921 | 9,8 |
| UNF 1/2"-20 | 12,700 | 11,326 | 11,509 | 11,4 |
| UNF 9/16"-18 | 14,288 | 12,761 | 12,954 | 12,8 |
| UNF 5/8"-18 | 15,875 | 14,348 | 14,542 | 14,4 |
| UNF 3/4"-16 | 19,050 | 17,330 | 17,534 | 17,4 |
| UNF 7/8"-14 | 22,225 | 20,261 | 20,477 | 20,3 |
| UNF 1"-12 | 25,400 | 23,109 | 23,338 | 23,2 |
| UNF 1 1/8"-12 | 28,575 | 26,284 | 26,513 | 26,4 |
| UNF 1 1/4"-12 | 31,750 | 29,459 | 29,688 | 29,6 |
| UNF 1 3/8"-12 | 34,925 | 32,634 | 32,863 | 32,7 |
| UNF 1 1/2"-12 | 38,100 | 35,809 | 36,038 | 35,9 |
| | | max | min | |

«NPS» Pipe thread

| Thread | Ø External (mm) | Ø Drilling (mm) | Ø Drill point (mm) |
|-------------|-----------------|-----------------|--------------------|
| NPS 1/8"-27 | 10,27 | 8,92 | 8,9 |
| NPS 1/4"-18 | 13,57 | 11,54 | 11,5 |
| NPS 3/8"-18 | 17,05 | 15,03 | 15,0 |
| NPS 1/2"-14 | 21,22 | 18,61 | 18,5 |
| NPS 3/4"-14 | 26,56 | 23,95 | 24,0 |
| NPS 1"-11½ | 33,22 | 30,05 | 30,0 |
| NPS 1¼"-11½ | 41,98 | 38,80 | 39,0 |
| NPS 1½"-11½ | 48,05 | 44,87 | 45,0 |
| NPS 2"-11½ | 60,09 | 56,91 | 57,0 |
| NPS 2½"-8 | 72,70 | 68,13 | 68,0 |
| NPS 3"-8 | 88,60 | 84,04 | 84,0 |

«NPT» Taper thread

| Thread | Ø Drilling (mm) |
|--------------|-----------------|
| NPS 1/8"-27 | 8,5 |
| NPS 1/4"-18 | 11,0 |
| NPS 3/8"-18 | 14,5 |
| NPS 1/2"-14 | 18,0 |
| NPS 3/4"-14 | 23,0 |
| NPS 1"-11½ | 29,0 |
| NPS 1¼"-11½ | 38,0 |
| NPS 1½"-11½ | 44,0 |
| NPS 2"-11½ | 56,0 |
| NPS 2 1/2"-8 | 67,0 |
| NPS 3"-8 | 83,0 |



WEIGHT in Kg per meter

STEEL (specific gravity 7,85 Kg/dm³)

Table with 16 columns (Size (mm) and weight values) and 21 rows for STEEL. Columns are grouped by size ranges: 2-11, 12-21, 22-31, 32-41, 42-51, 52-61, 62-71, 72-81, 82-91, 100-110, 120-130, 140-150, 160-170, 180-190, 200-210.

ALUMINIUM (specific gravity 2,7 Kg/dm³)

Table with 16 columns (Size (mm) and weight values) and 21 rows for ALUMINIUM. Columns are grouped by size ranges: 2-11, 12-21, 22-31, 32-41, 42-51, 52-61, 62-71, 72-81, 82-91, 100-110, 120-130, 140-150, 160-170, 180-190, 200-210.

BRASS (specific gravity 8,5 Kg/dm³)

Table with 16 columns (Size (mm) and weight values) and 21 rows for BRASS. Columns are grouped by size ranges: 2-11, 12-21, 22-31, 32-41, 42-51, 52-61, 62-71, 72-81, 82-91, 100-110, 120-130, 140-150, 160-170, 180-190, 200-210.