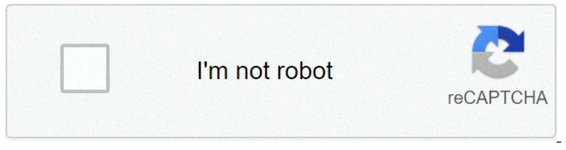

Continue

How thick is 10 ga metal

Metal sheet thickness is measured in gauge. The table below provides conversion to inches. Wire/conductor sizes are also measured in gauge and are equivalent to the non-ferrous thicknesses listed below, but we have an article specific to wire gauge. Gauge Non-Ferrous MetalAlum, Brass, etc.Inches GalvanizedSteelInches StandardSteelInches StainlessSteelInches 1 .2893 .2812 2 .2576 .2656 3 .2294 .2391 .2500 4 .2043 .2242 .2344 5 .1819 .2092 .2187 6 .1620 .1943 .2031 7 .1443 .1793 .1875 8 .1285 .1680 .1644 .1719 9 .1144 .1532 .1495 .1562 10 .1019 .1382 .1345 .1406 11 .0907 .1233 .1196 .1250 12 .0808 .1084 .1046 .1094 13 .0720 .0934 .0897 .0937 14 .0641 .0785 .0747 .0781 15 .0571 .0710 .0673 .0703 16 .0508 .0635 .0598 .0625 17 .0453 .0575 .0538 .0562 18 .0403 .0516 .0478 .0500 19 .0359 .0456 .0418 .0437 20 .0320 .0396 .0359 .0375 21 .0285 .0366 .0329 .0344 22 .0253 .0336 .0299 .0312 23 .0226 .0306 .0269 .0281 24 .0201 .0276 .0239 .0250 25 .0179 .0247 .0209 .0219 26 .0159 .0217 .0179 .0187 27 .0142 .0202 .0164 .0172 28 .0126 .0187 .0149 .0156 29 .0113 .0172 .0135 .0141 30 .0100 .0157 .0120 .0125 Article Updated: February 17, 2020 A sheet metal gauge (sometimes spelled "gage") indicates the standard thickness of sheet metal for a specific material. As the gauge number increases, the material thickness decreases.Sheet metal thickness gauges for steel are based on a weight of 41.82 pounds per square foot per inch of thickness. This is known as the Manufacturers' Standard Gage for Sheet Steel. For other materials, such as aluminum and brass, the thicknesses will be different. Thus, a 10 gauge steel sheet which has a thickness of 0.1345 inches will weigh 41.82*0.1345 = 5.625 pounds per square foot.Examples: 16 ga CRS is 2.5 pounds per square foot. For 18 ga CRS the weight is 2.0 pounds per square foot and for 20 ga CRS the weight is 1.5 pounds per square foot. GaugeSteelCarbon Steel ehGalvanized SteelStainless SteelAluminumSteel (mm)070.179---4.547080.1650.16440.16810.17190.12854.191090.1500.14950.15320.15630.11443.810100.1350.13450.13820.14060.10193.429110.1200.11960.12330.12500.09073.048120.1050.10460.10840.10940.08082.677130.09--0.0940.0722.286140.0750.07470.07850.07810.06411.905150.067--0.070.0571.702160.0600.05980.06350.06250.05081.524170.054--0.0560.0451.372180.0470.04780.05160.05000.04031.1938190.042--0.0440.0361.067200.0360.03590.03960.03750.03200.9144210.033--0.0340.0280.838220.03--0.0310.0250.762230.027--0.0280.0230.686240.024--0.0250.020.61250.021--0.0220.0180.533260.018--0.0190.0170.457270.016--0.0170.0140.406280.015--0.016-0.381290.014--0.014-0.356300.012--0.013-0.30531---0.011--Thickness is expressed in inches except for the mm column (1in = 25.4mm).This table is for reference only and it is highly recommended that you check with a local supplier to establish what actual thickness values are used in your particular location. Within the world of laser cutting, metal thickness based on gauge is a vital consideration. It's something we use regularly at Cypress Metals, and something our clients should have access to as well. The table below is a simple resource that allows you to sort thickness by both inches and millimeters, for both steel and aluminum: Gauge (ga) Steel Thickness (in.) Steel Thickness (mm) Aluminum Thickness (in.) Aluminum Thickness (mm) 3 0.2391 6.07 0.2294 5.83 4 0.2242 5.69 0.2043 5.19 5 0.2092 5.31 0.1819 4.62 6 0.1943 4.94 0.162 4.11 7 0.1793 4.55 0.1443 3.67 8 0.1644 4.18 0.1285 3.26 9 0.1495 3.80 0.1144 2.91 10 0.1345 3.42 0.1019 2.59 11 0.1196 3.04 0.0907 2.30 12 0.1046 2.66 0.0808 2.05 13 0.0897 2.28 0.072 1.83 14 0.0747 1.90 0.0641 1.63 15 0.0673 1.71 0.0571 1.45 16 0.0598 1.52 0.0508 1.29 17 0.0538 1.37 0.0453 1.15 18 0.0478 1.21 0.0403 1.02 19 0.0418 1.06 0.0359 0.91 20 0.0359 0.91 0.032 0.81 21 0.0329 0.84 0.0285 0.72 22 0.0299 0.76 0.0253 0.64 23 0.0269 0.68 0.0226 0.57 24 0.0239 0.61 0.0201 0.51 25 0.0209 0.53 0.0179 0.45 26 0.0179 0.45 0.0159 0.40 27 0.0164 0.42 0.0142 0.36 28 0.0149 0.38 0.0126 0.32 29 0.0135 0.34 0.0113 0.29 30 0.012 0.30 0.01 0.25 31 0.0105 0.27 0.0089 0.23 32 0.0097 0.25 0.008 0.20 33 0.009 0.23 0.0071 0.18 34 0.0082 0.21 0.0063 0.16 35 0.0075 0.19 0.0056 0.14 36 0.0067 0.17 – – Manufacturing Knowledge Menu| Sheet Metal Knowledge Menu Sheet Metal Manufacturing and Services The following sheet metal gauge size reference chart gives the weight and thickness of sheet metal given as a "gauge" (sometimes spelled gage) and indicates the standard thickness of sheet metal and wire.For most materials, as the gauge number increases, the material thickness decreases. The gage sizes are specified by numbers and the following tables also gives the decimal equivalents of the different gage numbers. There is some disagreement with regards to the use of gage numbers when purchasing gage size where it is preferable to give the exact dimensions in decimal fractions of an inch while referencing the gauge size and material. While the dimensions thus specified should conform to the gage ordinarily used for a given class of material, any error in the specification due, for example, to the use of a table having "rounded off"? or approximate equivalents, will be apparent to the manufacturer at the time the order is placed. This author recommends specifications for both gage and decimal thickness when ordering sheet metal gage stock. Sheet Metal Gauge Size Table Chart GAUGE no. Non-Ferrous Brown & Sharp Steel Sheets Strip & Tubing Birmingham or Stubs lbs./Sq. ft. 1100,6061 Aluminum Gauge Decimal (inches) lbs./Sq. ft. Alloy 260 Brass Gauge Decimal (inches) lbs./Sq. ft. Steel Strip Gauge Decimal (inches) lbs./Sq. ft. Steel Strip 000000 - .5800 - - - - - 00000 - .5165 - - - .500 20.40 0000 - .4600 - - - .454 18.52 000 - .4096 - - - .425 17.34 00 - .3648 - - - .380 15.50 0 - .3249 - - - .340 13.87 1 - .2893 - - - .300 12.24 2 - .2576 - - - .284 11.59 3 - .2294 - .2391 9.754 .259 10.57 4 - .2043 - .2242 9.146 .238 9.710 5 - .1819 - .2092 8.534 .220 8.975 6 2.286 .1620 7.185 .1943 7.926 .203 8.281 7 2.036 .1443 6.400 .1793 7.315 .180 7.343 8 1.813 .1285 5.699 .1644 6.707 .165 6.731 9 1.614 .1144 5.074 .1495 6.099 .148 6.038 10 1.438 .1019 4.520 .1345 5.487 .134 5.467 11 1.280 .0907 4.023 .1196 4.879 .120 4.895 12 1.140 .0808 3.584 .1046 4.267 .109 4.447 13 1.016 .0720 3.193 .0897 3.659 .095 3.876 14 .905 .0641 2.843 .0747 3.047 .083 3.386 15 .806 .0571 2.532 .0673 2.746 .072 2.937 16 .717 .0508 2.253 .0598 2.440 .065 2.652 17 .639 .0453 2.009 .0538 2.195 .058 2.366 18 .569 .0403 1.787 .0478 1.950 .049 1.999 19 .507 .0359 1.592 .0418 1.705 .042 1.713 20 .452 .0320 1.419 .0359 1.465 .035 1.428 21 .402 .0285 1.264 .0329 1.342 .032 1.305 22 .357 .0253 1.122 .0299 1.220 .028 1.142 23 .319 .0226 1.002 .0269 1.097 .025 1.020 24 .284 .0201 .892 .0239 .975 .022 .898 25 .253 .0179 .794 .0209 .853 .020 .816 26 .224 .0159 .705 .0179 .730 .018 .734 27 .200 .0142 .630 .0164 .669 Standard sheet metal gauges for Specific Engineering Materials Gauge Steel in (mm) Galvanized steel in (mm) Stainless steel in (mm) Aluminum in (mm) Zinc in (mm) 3 0.2391 (6.07) - - - 0.006 (0.15) 4 0.2242 (5.69) - - - 0.008 (0.20) 5 0.2092 (5.31) - - - 0.010 (0.25) 6 0.1943 (4.94) - - 0.162 (4.1) 0.012 (0.30) 7 0.1793 (4.55) - 0.1875 (4.76) 0.1443 (3.67) 0.014 (0.36) 8 0.1644 (4.18) 0.1681 (4.27) 0.1719 (4.37) 0.1285 (3.26) 0.016 (0.41) 9 0.1495 (3.80) 0.1532 (3.89) 0.1563 (3.97) 0.1144 (2.91) 0.018 (0.46) 10 0.1345 (3.42) 0.1382 (3.51) 0.1406 (3.57) 0.1019 (2.59) 0.020 (0.51) 11 0.1196 (3.04) 0.1233 (3.13) 0.1250 (3.18) 0.0907 (2.30) 0.024 (0.61) 12 0.1046 (2.66) 0.1084 (2.75) 0.1094 (2.78) 0.0808 (2.05) 0.028 (0.71) 13 0.0897 (2.28) 0.0934 (2.37) 0.094 (2.4) 0.072 (1.8) 0.032 (0.81) 14 0.0747 (1.90) 0.0785 (1.99) 0.0781 (1.98) 0.0641 (1.63) 0.036 (0.91) 15 0.0673 (1.71) 0.0710 (1.80) 0.07 (1.8) 0.057 (1.4) 0.040 (1.0) 16 0.0598 (1.52) 0.0635 (1.61) 0.0625 (1.59) 0.0508 (1.29) 0.045 (1.1) 17 0.0538 (1.37) 0.0575 (1.46) 0.056 (1.4) 0.045 (1.1) 0.050 (1.3) 18 0.0478 (1.21) 0.0516 (1.31) 0.0500 (1.27) 0.0403 (1.02) 0.055 (1.4) 19 0.0418 (1.06) 0.0456 (1.16) 0.044 (1.1) 0.036 (0.91) 0.060 (1.5) 20 0.0359 (0.91) 0.0396 (1.01) 0.0375 (0.95) 0.0320 (0.81) 0.070 (1.8) 21 0.0329 (0.84) 0.0366 (0.93) 0.034 (0.86) 0.028 (0.71) 0.080 (2.0) 22 0.0299 (0.76) 0.0336 (0.85) 0.031 (0.79) 0.025 (0.64) 0.090 (2.3) 23 0.0269 (0.68) 0.0306 (0.78) 0.028 (0.71) 0.023 (0.58) 0.100 (2.5) 24 0.0239 (0.61) 0.0276 (0.70) 0.025 (0.64) 0.02 (0.51) 0.125 (3.2) 25 0.0209 (0.53) 0.0247 (0.63) 0.022 (0.56) 0.018 (0.46) - 26 0.0179 (0.45) 0.0217 (0.55) 0.019 (0.48) 0.017 (0.43) - 27 0.0164 (0.42) 0.0202 (0.51) 0.017 (0.43) 0.014 (0.36) - 28 0.0149 (0.38) 0.0187 (0.47) 0.016 (0.41) 0.0126 (0.32) - 29 0.0135 (0.34) 0.0172 (0.44) 0.014 (0.36) 0.0113 (0.29) - 30 0.0120 (0.30) 0.0157 (0.40) 0.013 (0.33) 0.0100 (0.25) - 31 0.0105 (0.27) 0.0142 (0.36) 0.011 (0.28) 0.0089 (0.23) - 32 0.0097 (0.25) - - - - 33 0.0090 (0.23) - - - - 34 0.0082 (0.21) - - - - 35 0.0075 (0.19) - - - 36 0.0067 (0.17) - - - - 37 0.0064 (0.16) - - - - 38 0.0060 (0.15) - - - - Sheet Metal Gauge Tolerances Steel sheet metal tolerances Gauge Nominal [in] Max Size [in] Min Size [in] 10 0.1345 0.1405 0.1285 11 0.1196 0.1256 0.1136 12 0.1046 0.1106 0.0986 14 0.0747 0.0797 0.0697 16 0.0598 0.0648 0.0548 18 0.0478 0.0518 0.0438 20 0.0359 0.0389 0.0329 22 0.0299 0.0329 0.0269 24 0.0239 0.0269 0.0209 26 0.0179 0.0199 0.0159 28 0.0149 0.0169 0.0129 Aluminum sheet metal tolerances Thickness [in] Sheet width 36 in [in] 48 in [in] 0.018±0.028 0.002 0.0025 0.029 ±0.036 0.002 0.0025 0.037±0.045 0.0025 0.003 0.046±0.068 0.003 0.004 0.069±0.076 0.003 0.004 0.077±0.096 0.0035 0.004 0.097±0.108 0.004 0.005 0.109±0.125 0.0045 0.005 0.126±0.140 0.0045 0.005 0.141±0.172 0.006 0.008 0.173±0.203 0.007 0.010 0.204±0.249 0.009 0.011 Stainless steel sheet metal tolerances Thickness [in] Sheet width 36 in [in] 48 in [in] 0.017±0.030 0.0015 0.002 0.031±0.041 0.002 0.003 0.042±0.059 0.003 0.004 0.060±0.073 0.003 0.0045 0.074±0.084 0.004 0.0055 0.085±0.099 0.004 0.006 0.100±0.115 0.005 0.007 0.116±0.131 0.005 0.0075 0.132±0.146 0.006 0.009 0.147±0.187 0.007 0.0105 Material Specifications for Steel Sheet Metal: A366: Cold Rolled Commercial Quality A569: :Hot Rolled Commercial Quality A570: Hot Rolled Structural Quality A526: Zinc Coated (Galvanized) Steel A526/A527: Galvanneal A591: Electrolytically Zinc Plated Mechanical Tolerances ASTM ANSI Steel Sheets Related Resources: American Wire Gauge (AWG) Copper Wire Size Data Chart The decimal system of indicating gage sizes has been being used quite generally, and depending on industry or organization, gage numbers may or may not be specified. Unfortunately, there is considerable variation in the use of different gages. For example, a gage ordinarily used for copper, brass and other non-ferrous materials, may incorrectly be used for steel, and vice versa. The gages specified in the following table are the ones ordinarily employed for the materials mentioned, but there are some minor exceptions and variations in the different industries. Date/Time: The rating for steel gauge may seem backward: the smaller the number, the thicker the steel. 7 gage steel, for example, is much thicker than 12 gauge steel. And the thickness makes a difference—the thicker the steel, the stronger it is. That's why safes that aren't at least 12 gauge steel or thicker cannot be UL-listed as Residential Security Containers (RSC). UL, or Underwriter's Laboratories, is a third-party company that verifies claims companies make for their products. Being UL-listed is an important distinction for both safe locks and safe bodies. The Benefits of a Thicker Steel Gauge Thicker steel obviously improves the safe's security level. It's more difficult to cut through, and it makes the safe heavier and harder to tip over and pry open. Thicker steel also improves the safe's fire protection rating. How Thick Is The Gauage of Steel? Each gauge of steel represents a specific thickness. The different thicknesses may seem so close to one another that it wouldn't matter, but each step up in thickness represents a big difference when it comes to safe security and fire protection. 7-gauge steel: 3/16" thick 8-gauge steel: 11/64" thick 9-gauge steel: 5/32" thick 10-gauge steel: 9/64" thick 12-gauge steel: 7/64" thick 14-gauge steel: 5/64" thick So, remember, when you're comparing safes, the smaller the steel gauge, the thicker the steel. Liberty Safe. Always Protected.TM VIEW OUR SPECIALS Which Safe is Right For You? TAKE THE QUIZ Gauges are used to measure the material thickness of a sheet of metal. These units are neither standard of metric and are completely independent of those typical measurement systems. Keeping a gauge conversion chart nearby is an easy way to determine the actual thickness of a sheet of metal in inches or millimeters. For example, a 14 gauge stainless steel is .07812 inches thick. The gauge number 14 holds no relevance to the actual measurements. It is important to know that the gauge thicknesses also vary depending on the type of sheet metal being referenced. Take for instance 12-gauge thickness across the material types listed below; stainless steel is 0.105″ thick, aluminum is 0.080″, copper is 0.108″, and brass is 0.081″. Thickness Chart Thickness is expressed in inches This table is for reference only and it is highly recommended that you check with a local supplier to establish what actual thickness values are used in your particular location. If you'd like Meta Fab to quote your next metal project, please submit your RFQ here! You can use any number of calipers to measure the material thickness or a handy thickness gauge like the one pictured below. Thickness Guage Tools Find calipers and other measurement tools and devices here. If you have any questions about the material thickness or plate sizes, please contact our sales team at sales@metafab.com. They will be more than happy to answer any questions and get you started on your next project.

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