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Iron sheet gauge to mm

Sheet Steel Thicknesses vs Gauge No. Old Gauge Minimum Thickness Nominal Thickness Marking Gauge no. in. mm. in. 12 0.0946 2.4 2.4 16 0.0533 1.35 1.4 18 0.0428 1.09 1.1 19 0.0378 0.96 1 20 0.0324 0.823 0.8 22 0.0269 0.683 0.7 24 0.0209 0.531 0.5 26 0.0159 0.404 0.4 28 0.0129 0.328 0.3 29 0.0115 0.292 0.3 Sheet steel thickness is measured at any point no less than V8 in. (9.53 mm) from the edge. New DOT regulations that went into effect for new packaging manufacturers on Oct. 1, 1994 no longer refer to steel thicknesses in gauges but rather in millimeters. Below is a similar chart from a different source. Metal Thickness conversion chart Conventional Gauge Inches Metric 24 .020 -.026" 0.5 - 0.6 mm 22 .027 -.032" 0.7 - 0.8 mm 20 .033 -.037" 0.8 - 0.9 mm 19 .038 -.042" 0.9 - 1.1 mm 18 .043 -.048" 1.1 - 1.2 mm 16 .053 -.059" 1.3 - 1.5 mm 12 .094 -.106" 2.4 - 2.7 mm Galvanized GI Sheet Metal Gauge to inch/mm Thickness: Gauge (or gage) dimensions are numbers that indicate the thickness of a piece of sheet and a higher number refers to a thinner sheet. The equivalent thicknesses differ for each standard size of the gauge, which has been developed based on the weight of the sheet for a given material. The manufacturer's standard calibrator provides thicknesses for standard steel, galvanized steel, and stainless steel. Finally, there is a standard for zinc where a higher indicator number indicates a thicker sheet. The following table can be used to determine the equivalent sheet thickness, in inches or millimeters, for an indicator number of the selected indicator size standard. Galvanized GI Sheet Metal Gauge to inch/mm Thickness:- Gauge (Ga.) It is a unit of measurement of the length for diameters originating in North America and belongs to the Browne & Sharpe measuring system. Originally used in the fields of medicine and jewelry, the greater the number, the smaller the diameter and now it is also used to indicate the thickness. Ga. it is different from inches, there is no conversion formula. Even when the non-ferrous metal plate and the steel plate are same Ga., The thickness is really different. You can find the gauge to mm / inch conversion:- Sheet Metal Gauge to mm Sheet Metal Gauge to inch How are sheet metal meters(Gauge) used? Meters are used to specify the thickness of a sheet. The meters are neither standard nor metric and the values are independent of these measurement systems. A gauge conversion table can be used to determine the actual thickness of the sheet in inches or millimeters. For example, steel with an 18 gauge, according to a gauge conversion chart, measures 0.0478 inches or 1.214 millimeters. Indicator number "18" is irrelevant for actual measurements. Today there are several measurement systems, with specific measurement designations used for specific types of metals. For example, in a one-caliber system, 18-gauge steel has a thickness of 0.0478 inches, but 18-gauge aluminum has a thickness of 0.0403 inches. Due to the different thicknesses, it is necessary to use a table of indicators to ensure that the metal meets the required dimensions. The below table summarizes sheet metal gauge and tolerances. Monroe, nor any of its employees shall be held liable for any improper or incorrect use of the information described and/or contained herein and assumes no responsibility for anyone's use of the information. Gauge U.S. standard for sheet and plate iron and steel decimal inch (mm) Steel inch (mm) Galvanized steel inch (mm) Stainless steel inch (mm) Aluminium inch (mm) Zinc inch (mm) 0000000 0.5000 (12.70) 000000 0.4688 (11.91) 00000 0.4375 (11.11) 0000 0.4063 (10.32) 000 0.3750 (9.53) 00 0.3438 (8.73) 0 0.3125 (7.94) 1 0.2813 (7.15) 2 0.2656 (6.75) 3 0.2500 (6.35) 0.2391 (6.07) 0.006 (0.15) 4 0.2344 (5.95) 0.2242 (5.69) 0.008 (0.20) 5 0.2188 (5.56) 0.2092 (5.31) 0.010 (0.25) 6 0.2031 (5.16) 0.1943 (4.94) 0.162 (4.1) 0.012 (0.30) 7 0.1875 (4.76) 0.1793 (4.55) 0.1875 (4.76) 0.1443 (3.67) 0.014 (0.36) 8 0.1719 (4.37) 0.1644 (4.18) 0.1681 (4.27) 0.1719 (4.37) 0.1285 (3.26) 0.016 (0.41) 9 0.1563 (3.97) 0.1495 (3.80) 0.1532 (3.89) 0.1563 (3.97) 0.1144 (2.91) 0.018 (0.46) 10 0.1406 (3.57) 0.1345 (3.42) 0.1382 (3.51) 0.1406 (3.57) 0.1019 (2.59) 0.020 (0.51) 11 0.1250 (3.18) 0.1196 (3.04) 0.1233 (3.13) 0.1250 (3.18) 0.0907 (2.30) 0.024 (0.61) 12 0.1094 (2.78) 0.1046 (2.75) 0.1084 (2.78) 0.0808 (2.05) 0.028 (0.71) 13 0.0938 (2.38) 0.0897 (2.28) 0.0934 (2.37) 0.094 (2.4) 0.072 (1.8) 0.032 (0.81) 14 0.0781 (1.98) 0.0747 (1.90) 0.0785 (1.99) 0.0781 (1.98) 0.0641 (1.63) 0.036 (0.91) 15 0.0703 (1.79) 0.0673 (1.71) 0.0710 (1.80) 0.07 (1.8) 0.057 (1.4) 0.040 (1.0) 16 0.0625 (1.59) 0.0598 (1.52) 0.0635 (1.61) 0.0595 (1.51) 0.0508 (1.29) 0.045 (1.1) 17 0.0563 (1.43) 0.0538 (1.37) 0.0575 (1.46) 0.056 (1.4) 0.045 (1.1) 0.050 (1.3) 18 0.0500 (1.27) 0.0478 (1.21) 0.0516 (1.31) 0.0500 (1.27) 0.0403 (1.02) 0.055 (1.4) 19 0.0438 (1.11) 0.0418 (1.06) 0.0456 (1.16) 0.044 (1.1) 0.036 (0.91) 0.060 (1.5) 20 0.0375 (0.95) 0.0359 (0.91) 0.0396 (1.01) 0.0375 (0.95) 0.0320 (0.81) 0.070 (1.8) 21 0.0344 (0.87) 0.0329 (0.84) 0.0366 (0.93) 0.034 (0.86) 0.028 (0.71) 0.080 (2.0) 22 0.0313 (0.80) 0.0299 (0.76) 0.0336 (0.85) 0.031 (0.79) 0.025 (0.64) 0.090 (2.3) 23 0.0281 (0.71) 0.0269 (0.68) 0.0306 (0.78) 0.028 (0.71) 0.023 (0.58) 0.100 (2.5) 24 0.0250 (0.64) 0.0239 (0.61) 0.0276 (0.70) 0.025 (0.64) 0.02 (0.51) 0.125 (3.2) 25 0.0219 (0.56) 0.0209 (0.53) 0.0247 (0.63) 0.022 (0.56) 0.018 (0.46) 26 0.0188 (0.48) 0.0179 (0.45) 0.0217 (0.55) 0.019 (0.48) 0.017 (0.43) 27 0.0172 (0.44) 0.0164 (0.42) 0.0202 (0.51) 0.017 (0.43) 0.014 (0.36) 28 0.0156 (0.40) 0.0149 (0.38) 0.0187 (0.47) 0.016 (0.41) 0.0126 (0.32) 29 0.0141 (0.36) 0.0135 (0.34) 0.0172 (0.44) 0.014 (0.36) 0.0113 (0.29) 30 0.0125 (0.32) 0.0120 (0.30) 0.0157 (0.40) 0.013 (0.33) 0.0100 (0.25) 31 0.0109 (0.28) 0.0105 (0.27) 0.0142 (0.36) 0.011 (0.28) 0.0089 (0.23) 32 0.0102 (0.26) 0.0097 (0.25) 33 0.0094 (0.24) 0.0090 (0.23) 34 0.0086 (0.22) 0.0082 (0.21) 35 0.0078 (0.20) 0.0075 (0.19) 36 0.0070 (0.18) 0.0067 (0.17) 37 0.0066 (0.17) 0.0064 (0.16) 38 0.0063 (0.16) 0.0060 (0.15) Gauge Nominal [in (mm)] Max [in (mm)] Min [in (mm)] 10 0.1345 (3.42) 0.1405 (3.57) 0.1285 (3.26) 11 0.1196 (3.04) 0.1256 (3.19) 0.1136 (2.89) 12 0.1046 (2.66) 0.1106 (2.81) 0.0986 (2.50) 14 0.0747 (1.90) 0.0797 (2.02) 0.0697 (1.77) 16 0.0598 (1.52) 0.0648 (1.65) 0.0548 (1.39) 18 0.0478 (1.21) 0.0518 (1.32) 0.0438 (1.11) 20 0.0359 (0.91) 0.0389 (0.99) 0.0329 (0.84) 22 0.0299 (0.76) 0.0329 (0.84) 0.0269 (0.68) 0.0209 (0.53) 26 0.0179 (0.45) 0.0199 (0.51) 0.0159 (0.40) 28 0.0149 (0.38) 0.0169 (0.43) 0.0129 (0.33) Thickness [in (mm)] Sheet width 36 (914.4) [in (mm)] 48 (1,219) [in (mm)] 0.018–0.028 (0.46–0.71) 0.002 (0.051) 0.0025 (0.064) 0.029–0.036 (0.74–0.91) 0.002 (0.051) 0.0025 (0.064) 0.037–0.045 (0.94–1.14) 0.0025 (0.064) 0.003 (0.076) 0.046–0.068 (1.2–1.7) 0.003 (0.076) 0.004 (0.10) 0.069–0.076 (1.8–1.9) 0.003 (0.076) 0.004 (0.10) 0.077–0.096 (2.0–2.4) 0.0035 (0.089) 0.004 (0.10) 0.097–0.108 (2.5–2.7) 0.004 (0.10) 0.005 (0.13) 0.109–0.125 (2.8–3.2) 0.0045 (0.11) 0.005 (0.13) 0.126–0.140 (3.2–3.6) 0.0045 (0.11) 0.005 (0.13) 0.141–0.172 (3.6–4.4) 0.006 (0.15) 0.008 (0.21) 0.173–0.203 (4.4–5.2) 0.007 (0.18) 0.010 (0.25) 0.204–0.249 (5.2–6.3) 0.009 (0.23) 0.011 (0.28) Thickness [in (mm)] Sheet width 36 (914.4) [in (mm)] 48 (1,219) [in (mm)] 0.017–0.030 (0.43–0.76) 0.0015 (0.038) 0.002 (0.051) 0.031–0.041 (0.79–1.04) 0.002 (0.051) 0.003 (0.076) 0.042–0.059 (1.1–1.5) 0.003 (0.076) 0.004 (0.10) 0.060–0.073 (1.5–1.9) 0.003 (0.076) 0.0045 (0.11) 0.074–0.084 (1.9–2.1) 0.004 (0.10) 0.0055 (0.14) 0.085–0.099 (2.2–2.5) 0.004 (0.10) 0.006 (0.15) 0.100–0.115 (2.5–2.9) 0.005 (0.13) 0.007 (0.18) 0.116–0.131 (2.9–3.3) 0.005 (0.13) 0.0075 (0.19) 0.132–0.146 (3.4–3.7) 0.006 (0.15) 0.009 (0.23) 0.147–0.187 (3.7–4.7) 0.007 (0.18) 0.0105 (0.27) Over 60 years of manufacturing experience to best serve our customers Read More >> Monroe provides custom manufacturing solutions to clients throughout the world Read More >> Our knowledge, customer service & processes are structured to reduce delivery times, improve quality & cut costs Read More >> Monroe is committed to customer satisfaction, we strive for continuous improvement in our products and our people. 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Submit an RFQ Diversified Ulbrich is a full line Stainless Steel Service Center and Distributor specializing in sheet, bar, plate, tubing, structural angle as well as rolled and slit coil. Aluminum sheet, plate and Specialty Metals are the newest additions to our product line. Manufacturing Knowledge Menu! Sheet Metal Knowledge Menu 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 10.574 - .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 0.1094 (2.78) 0.1046 (2.75) 0.1084 (2.78) 0.0808 (2.05) 0.028 (0.71) 13 0.0938 (2.38) 0.0897 (2.28) 0.0934 (2.37) 0.094 (2.4) 0.072 (1.8) 0.032 (0.81) 14 0.0781 (1.98) 0.0747 (1.90) 0.0785 (1.99) 0.0781 (1.98) 0.0641 (1.63) 0.036 (0.91) 15 0.0703 (1.79) 0.0673 (1.71) 0.0710 (1.80) 0.07 (1.8) 0.057 (1.4) 0.040 (1.0) 16 0.0625 (1.59) 0.0598 (1.52) 0.0635 (1.61) 0.0595 (1.51) 0.0508 (1.29) 0.045 (1.1) 17 0.0563 (1.43) 0.0538 (1.37) 0.0575 (1.46) 0.056 (1.4) 0.045 (1.1) 0.050 (1.3) 18 0.0500 (1.27) 0.0478 (1.21) 0.0516 (1.31) 0.0500 (1.27) 0.0403 (1.02) 0.055 (1.4) 19 0.0438 (1.11) 0.0418 (1.06) 0.0456 (1.16) 0.044 (1.1) 0.036 (0.91) 0.060 (1.5) 20 0.0375 (0.95) 0.0359 (0.91) 0.0396 (1.01) 0.0375 (0.95) 0.0320 (0.81) 0.070 (1.8) 21 0.0344 (0.87) 0.0329 (0.84) 0.0366 (0.93) 0.034 (0.86) 0.028 (0.71) 0.080 (2.0) 22 0.0313 (0.80) 0.0299 (0.76) 0.0336 (0.85) 0.031 (0.79) 0.025 (0.64) 0.090 (2.3) 23 0.0281 (0.71) 0.0269 (0.68) 0.0306 (0.78) 0.028 (0.71) 0.023 (0.58) 0.100 (2.5) 24 0.0250 (0.64) 0.0239 (0.61) 0.0276 (0.70) 0.025 (0.64) 0.02 (0.51) 0.125 (3.2) 25 0.0219 (0.56) 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 Sheet 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 0.004 0.074±0.084 0.004 0.005 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 A569: 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. © Copyright 2000 - 2021, by Engineers Edge, LLC www.engineersedge.com All rights reserved Disclaimer | Feedback | Advertising | Contact Date/Time:

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