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What is gauge to mm

Converting sheet metal gauge numbers to millimeters is as simple as following the chart below. For a more comprehensive gauge chart you can check out our sheet metal gauge chart here. This chart covers the common and uncommon sheet metal sizes for steel, aluminum and galvanized steel. Typically the even number gauges are used more frequently. Gauge #Standard Steel (mm)Non-Ferrous / Aluminum (mm)Galvanized Steel (mm) 000000-14.732- 00000-13.119- 0000-11.684- 000-10.404- 00-9.266- 0-8.252- 1-7.348- 2-6.543- 3-6.0735-827- 45.6955-189- 55-3144-620- 64.9354-115- 74.5543-665- 84-1763-2644-270 93.7972-9063-891 103.4162-5883-510 113.0382-3043-132 122.6572-0522-753 132-2781-8292-372 141-8971-6281-994 151-7091-4501-803 161-5191-2901-613 171-3671-1511-461 181-2141-0241-311 191-062-9121-158 20-912-8131-006 21-836-724-930 22-759-643-853 23-683-574-777 24-607-511-701 25-531-455-627 26-455-404-551 27-417-361-513 28-378-320-475 29-343-287-437 30-305-254-399 31-267-226-361 32-246-203-340 33-229-180- 34-208-160- 35-191-140- 36-170-127- 37-163-114- 38-152-102- 39-089- 40-079- Easily convert gauge to mm and decimal inch equivalents. Download a pdf of B&S Gauge to mm & inches Conversion. You can also read a text description of this information below. B&S Gauge Millimeters Inches 1 7.348 mm 2899" 2 6.543 mm 258" 3 5.827 mm 229" 4 5.189 mm 204" 5 4.620 mm 182" 6 4.115 mm 162" 7 3.663 mm 144" 8 3.261 mm 129" 9 2.906 mm 114" 10 2.586 mm 102" 11 2.304 mm 090" 12 2.052 mm 080" 13 1.826 mm 072" 14 1.626 mm 064" 15 1.448 mm 057" 16 1.290 mm 050" 17 1.148 mm 045" 18 1.024 mm 040" 19 0.912 mm 036" 20 0.813 mm 032" 21 0.724 mm 029" 22 0.643 mm 025" 23 0.574 mm 023" 24 0.511 mm 020" 25 0.455 mm 018" 26 0.404 mm 016" 27 0.361 mm 014" 28 0.330 mm 013" 29 0.279 mm 011" 30 0.254 mm 010" Multiple varieties of plastic measurements can be confusing for anyone not familiar with the measurement used. We have created a gauge conversion chart for readers to use, ensuring they are finding the proper thickness of the film. Below for reference, we have everyday household items and standard widths they come in. Below the gauge conversion chart, we have standard thicknesses of different packaging materials. Gauge measurements for plastic are different than wire gauge for plastic gauge measurement, the higher the gauge, the thicker the film. Home Use Saran Wrap - Typically 35-40 ga. Thickness Home Use Ziplock Bags - Typically 1.5-2 Mil Thickness Heavy Duty Trash Bags - Typically 2-3 Mil Thickness Gauge Conversion Chart Gauge Mil Micron Millimeter Inch Centimeter 30 .30 7.6 .0076 .0003 .000762 40 .40 10 .0101 .0004 .001016 50 .50 12.5 .0127 .0005 .00127 60 .60 15 .0152 .0006 .001524 75 .75 19 .0190 .0007 .001905 80 .80 20 .0203 .0008 .002032 90 .90 23 .0228 .0009 .002286 100 1.0 25 .0254 .0010 .00254 120 1.2 30 .0304 .0012 .003048 150 1.5 38 .0380 .0015 .00381 160 1.6 40 .0406 .0016 .004064 180 1.8 45 .0457 .0018 .004572 200 2.0 50 .0508 .0020 .00508 Common Stretch Film Thicknesses 47 Gauge Hand Stretch Film 63 Gauge Hand Stretch Film 80 Gauge Hand Stretch Film 120 Gauge Hand Stretch Film 50 Gauge Machine Stretch Film 63 Gauge Machine Stretch Film 80 Gauge Machine Stretch Film 150 Gauge Machine Stretch Film Common Heat Shrink Film Thicknesses 60 Gauge Polyolefin Shrink Film 75 Gauge Polyolefin Shrink Film 75 Gauge PVC Shrink Film 100 Gauge Polyolefin Shrink Film Common Packaging Tape Thicknesses 1.6 Mil Packing Tape 1.8 Mil Packing Tape 2.2 Mil Packing Tape 3.1 Mil Packaging Tape Call us at 1-800-441-5090 if you have any questions about film thickness and what type works best for your application or shop online at uspackagingandwrapping.com Prices Gold \$1844.30 Silver \$24.80 Platinum \$1073.00 Palladium \$2606.00 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 Ear Gauge sizes are tricky if you're just starting with ear stretching. But, once you get used to the way we size plugs/gauges it's not that hard, so here's what you need to know about ear gauges and the sizing you need for stretching your ears. Intro to ear gauge numbers you start using solely mm and inches. Still confused? Don't worry, check out our chart below for the ear gauge sizes you need (and how to convert them.) Ear Gauge Size Chart Here is our shortened ear gauge size chart with conversions of many popular sizes. Scroll down for the full conversion table. Convert Ear Gauge to mm and Inch Gauge (g) Millimeters (mm) Inches (") 18g 1.0mm 5/128" 16g 1.2mm 3/64" 14g 1.6mm 1/16" 12g 2mm 5/64" 10g 2.4mm 3/32" 8g 3mm 1/8" 6g 4mm 5/32" 4g 5mm 3/16" 2g 6mm 1/4" 1g 7mm 9/32" 0g 8mm 5/16" 9mm 3/8" 00g 10mm 3/8" 11mm 7/16" 12mm 1/2" 13mm 17/32" 14mm 9/16" 15mm 19/32" 16mm 5/8" 17mm 0.67" 18mm 11/16" 19mm 3/4" 20mm 13/16" 21mm 53/64" 22mm 7/8" 24mm 15/16" 25mm 1" 26mm 1.024" 27mm 1.06" 28mm 1.10" 29mm 1 1/8" 30mm 1.18" 31mm 1.22" 32mm 1 1/4" 34mm 1 5/16" 35mm 1 3/8" 36mm 1 7/16" 38mm 1 1/2" 40mm 1 9/16" 42mm 1 5/8" 44mm 1 3/4" 46mm 1 3/16" 48mm 1 7/8" 50mm 2" I'm confused - why are gauge sizes backward? The reason why it's all hard to work out is that ear gauge sizes aren't traditionally made for jewellery! Long story short they were created by the British wire industry to measure the thickness of wire using a 1" steel plate as a reference point. So using 1/16th became known as a 16 gauge, using 1/8th became an 8 gauge and so on. That's why the lower the fraction the thicker the wire! (and also why it gets tricky past an inch!) Ear plugs aren't the only industry that uses the gauge system, it's actually used in the medical industry by anesthetists too! What ear gauge sizes do we sell? We sell plugs in pretty much all of the ear gauge sizes, although not every design and material is available in every size. So whether you're just starting out with stretching your ears or you're just looking for some awesome body jewellery that you can't find anywhere else, we can accommodate your size! How do ear gauge sizes work? As we've looked at, sizes will start with ear gauges first before flipping to inches (although some prefer the millimetre equivalent) But to put the sizes into perspective, when you first get your ears pierced with a traditional earring, it will likely be either a 20g or 18g and then you would stretch to the next size up which is either 16g (1.2mm or 3/64") or 14g (1.5mm or 1/16"). So you work down the scale of gauges the larger you stretch your ears. One point to note here is that when working with the human body, sizes can differ. Unfortunately, it's not always as accurate in inches or fractions which is why the gauge size can have different conversions. If you are stuck for your size, refer to our chart or get in touch and we'll see if we can help you find the right ear gauges and plugs for you. Got a question about ear gauge sizes? Do you still have questions about ear gauge sizes? Get in touch with us today about any questions to do with our plugs and tunnels and we'll get back to you within a day or two! Home > TECHNICAL RESOURCES > Gauge = mm = Inch Conversion Chart Gauge = mm = Inch Conversion Chart B&S Gauge Millimeter(mm) Inch(decimal) Inch(fraction) B&S Gauge Millimeter(mm) Inch(decimal) Inch(fraction) 1 7.348 0.289 - 16 1.291 0.051 - 2 6.543 0.258 - - 1.191 0.047 3/64 - 6.350 0.250 1/4 17 1.149 0.045 - - 5.953 0.234 15/64 18 1.024 0.040 - 3 5.827 0.229 - 19 0.912 0.036 - - 5.556 0.219 7/32 20 0.812 0.032 - 4 5.189 0.204 - - 0.795 0.031 1/32 - 5.154 0.203 13/64 21 0.723 0.028 - - 4.762 0.188 3/16 22 0.644 0.025 - 5 4.621 0.182 - 23 0.573 0.023 - - 4.366 0.172 11/64 24 0.511 0.020 - 6 4.115 0.162 - 25 0.455 0.018 - - 3.969 0.156 5/32 26 0.405 0.016 - 7 3.664 0.144 - - 0.396 0.015 1/64 - 3.572 0.141 9/64 27 0.360 0.014 - 8 3.263 0.128 - 28 0.321 0.013 - - 3.175 0.125 1/8 29 0.286 0.011 - 9 2.906 0.114 - 30 0.255 0.010 - - 2.778 0.109 7/64 31 0.227 0.0089 - 10 2.588 0.102 - 32 0.202 0.0080 - - 2.381 0.094 3/32 33 0.180 0.0071 - 11 2.304 0.091 - 34 0.160 0.0063 - 12 2.052 0.081 - 35 0.142 0.0056 - - 1.984 0.078 5/64 36 0.127 0.0050 - 13 1.828 0.072 - 37 0.113 0.0045 - 14 1.628 0.064 - 38 0.101 0.0040 - - 1.588 0.063 1/16 39 0.090 0.0035 - 15 1.449 0.057 - 40 0.080 0.0031 - B&S Gauge Inch mm 1 .289 7.348 2 .258 6.543 * .250 (1/4) 6.350 * .234 (15/64) 5.953 3 2.29 5.827 * .219 (7/32) 5.556 4 2.04 5.189 * .203 (13/64) 5.154 * .188 (3/16) 4.762 5 .182 4.621 * .172 (11/64) 4.366 6 .162 4.115 * .156 (5/32) 3.969 7 .144 3.664 * .141 (9/64) 3.572 8 .128 3.263 * .125 (1/8) 3.175 9 .114 2.906 * .109 (7/64) 2.778 10 .102 2.588 * .094 (3/32) 2.381 11 .091 2.304 12 .081 2.052 * .078 (5/64) 1.984 13 .072 1.828 14 .064 1.628 * .063 (1/16) 1.588 15 .057 1.449 16 .051 1.291 * .047 (3/64) 1.191 17 .045 1.149 18 .040 1.024 19 .036 912 20 .032 .812 * .031 (1/32) .795 21 .028 .723 22 .025 .644 23 .023 .573 24 .020 .511 25 .018 .455 26 .016 .405 * .016 (1/64) .396 27 .014 .360 28 .013 .321 29 .011 .286 30 .010 .255 31 .0089 .226 32 .0080 .200 33 .0071 .180 34 .0063 .160 35 .0056 .142 36 .0050 .130 37 .0045 .114 38 .0040 .100 The thickness of sheet metals is specified by gauge. The table below shows the actual thickness of sheet steel in millimetres and inches compared to gauge size. These dimensions vary slightly between different materials such as stainless steel and aluminium - but should be accurate enough for most everyday purposes. Gauge No Inch Metric 0 0.324" 8.2mm 1 0.300" 7.6mm 2 0.276" 7.0mm 3 0.252" 6.4mm 4 0.232" 5.9mm 5 0.212" 5.4mm 6 0.192" 4.9mm 7 0.176" 4.5mm 8 0.160" 4.1mm 9 0.144" 3.7mm 10 0.128" 3.2mm 11 0.116" 2.9mm 12 0.104" 2.6mm 13 0.092" 2.3mm 14 0.080" 2.0mm 15 0.072" 1.8mm 16 0.064" 1.6mm 17 0.056" 1.4mm 18 0.048" 1.2mm 19 0.040" 1.0mm 20 0.036" 0.9mm 21 0.032" 0.8mm 22 0.028" 0.7mm 23 0.024" 0.6mm 25 0.020" 0.5mm 26 0.018" 0.45mm 27 0.016" 0.42mm 28 0.0148" 0.37mm 29 0.0136" 0.34mm 30 0.0124" 0.31mm 31 0.0116" 0.29mm 32 0.0108" 0.27mm 33 0.0100" 0.25mm 34 0.0092" 0.23mm 35 0.0084" 0.21mm 36 0.0076" 0.19mm 37 0.0068" 0.17mm 38 0.0060" 0.15mm 39 0.0052" 0.13mm 40 0.0048" 0.12mm Page 2

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