

## Engineering Information

### Weight of Drawn Copper Bars Tapes, Flats & Strips

This table gives drawn copper bars tape, flats and strips for standard rectangular sizes; kilos per lineal metre for size inch convert to kilos.

**Engineering Information**

WEIGHT OF DRAWN COPPER BARS TAPE, FLATS & STRIPS							
Standard Rectangular Sizes, Kilos per lineal Metre							
Size Inch	Kilos	Size Inch	Kilos	Size Inch	Kilos	Size Inch	Kilos
1/16x1/2	.1785	3/16x1/2	.5356	1/4x1.34	2.5112	3/8x4.12	9.6768
5/8	.2232	5/8	.6725	2	2.8688	4.34	10.2225
3/4	.2678	3/4	.8064	2.14	3.2288	5	10.7656
7/8	.3139	7/8	.9419	2.12	3.5824	1/2x1	2.8688
1	.3586	1	1.0742	2.34	3.5960	1.14	3.5824
1.1/4	.4478	1.1/4	1.3450	3	4.2968	1.12	4.2968
1.1/2	.5371	1.1/2	1.6144	3/8x1	2.1484	1.34	5.0145
1.8x1/2	.3570	1.34	1.8548	1.14	2.6984	2	5.7507
5/8	.4464	2	2.1484	1.12	3.2288	2.14	6.4576
3/4	.5356	2.14	2.4192	1.34	3.7096	2.12	7.0648
7/8	.6278	2.12	2.6784	2	4.2968	2.34	7.8892
1	.7172	2.34	2.9452	2.14	4.8384	3	8.5480
1.1/4	.8956	3	3.2288	2.12	5.3568	3.14	9.3297
1.1/2	1.0742	1/4x1/2	.7172	2.34	5.9272	3.12	10.0340
1.34	1.2556	5/8	.8956	3	6.4576	3.34	10.7656
2	1.4344	3/4	1.0742	3.14	6.9936	4	11.5014
2.1/4	1.6144	7/8	1.2556	3.12	7.4192	4.14	12.2083
2.1/2	1.7912	1	1.4344	3.34	8.0064	4.12	12.9152
2.3/4	1.9730	1.1/4	1.7912	4	8.5480	4.3/4	13.5224
3	2.1484	1.1/2	2.1484	4.1/4	9.1497	5	14.1296

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THERMOMETER AND HYDROMETER SCALES		
<p>The number of degrees between freezing point and boiling point of water is 212-32 = 180 degrees on the Fahrenheit scale, and 100 degrees on the Centigrade scale. The magnitude of the degree F. relative to degrees C, is thus as 5 to 9.</p> <p>Temp C = 5/9 (F° - 32); Temp F = 2/5 (C° + 32).</p> <p>The following formula enables degrees Baume to be converted into specific Gravity :</p>		
$\text{Sp. Gr.} = \frac{140}{\text{Degs. B.} + 130}$	$\text{Degs. B.} = \frac{140}{\text{Sp. Gr.}} - 130$	
<p>For liquids heavier than water :- Sp. Gr. = <math>\frac{146}{145 - \text{Degs. B.}}</math></p>		
<p>Pressure of a column of oil h feet high = <math>P = \frac{61.4h}{131.5 + B^6}</math></p> <p style="text-align: center;">lb./in.<sup>2</sup></p>		
ELETRICAL ENGINEERING		
<p>746 Watts equal one Mechanical Horse-Power. Generators are rated in Kilowatts = 1000 Watts. The Kilowatt Hour quantity unit for power. 1 Watt = 1 Volt x 1 Ampere. 1 B.H.P. = 0.764 Kilowatts. 1K<sub>m</sub> H. = 3413 B. Th. U.I.E.E. 1939, 11 th Edition.</p>		
<p>Electrical pressure, potential different, or elect. n. o. t. force.</p>		
E.M.F	Volt	10 <sup>3</sup>
Current	Amp	10 <sup>-1</sup>
Resistance	Ohm	10 <sup>2</sup>
Work	Joule	10 <sup>3</sup>
Capacity	Farad	10 <sup>-2</sup>
Capacity	Micro-Fared	10 <sup>-5</sup>
Power	Watt	10 <sup>7</sup>
Power	Kilowatt	10 <sup>10</sup>
Energy	Kilowatt	36x
	hour	10 <sup>12</sup>

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