Hex Bar Weight Chart

Updated 8 November 2026 · Calculated with steel density 7,850 kg/m³

Hex Bar Weight Chart

Across flats	MS kg/m	MS per 6 m	SS 304 kg/m	Brass kg/m
8 mm	0.435	2.61	0.440	0.471
10 mm	0.680	4.08	0.687	0.736
12 mm	0.979	5.87	0.989	1.060
13 mm	1.149	6.89	1.161	1.244
16 mm	1.740	10.44	1.758	1.884
17 mm	1.965	11.79	1.985	2.127
19 mm	2.454	14.73	2.479	2.657
20 mm	2.719	16.32	2.747	2.944
22 mm	3.290	19.74	3.324	3.563
24 mm	3.916	23.49	3.956	4.240
25 mm	4.249	25.49	4.292	4.601
27 mm	4.956	29.74	5.006	5.366
30 mm	6.118	36.71	6.181	6.625
32 mm	6.961	41.77	7.032	7.538
36 mm	8.811	52.86	8.900	9.540
41 mm	11.428	68.57	11.544	12.374
46 mm	14.385	86.31	14.532	15.576
50 mm	16.996	101.97	17.169	18.403

Hex Bar Weight Formula

$$\text{Weight (kg/m)} = 0.866 \times AF \times AF \times 0.00785 = AF^2 \times 0.0068$$

AF is the distance across flats in mm. The area of a hexagon is $\sqrt{3} \div 2 \times AF^2 = 0.866 \times AF^2$.

Example: a 20 mm MS hex bar weighs 0.866 × 400 × 0.00785 = **2.719 kg/m**.

Measure across flats (parallel sides), not across corners. Across corners is about 1.155 × AF.

Sources & Standards

- Density of mild steel: 7,850 kg/m³ (7.85 g/cm³); SS 304: 7,930 kg/m³

Weights are theoretical. Found an error? Tell us and we will fix it.