

Metal Density Chart

Various Metals	Density, g/cm ³	Density, kg/m ³	Density, lb/in ³	Density, lb/ft ³
Mild Steel	7.85	7850	0.284	490
Medium carbon steel	7.83	7830	0.283	489
High carbon steel	7.81	7810	0.282	488
Iron	7.87	7870	0.284	491
Stainless steel	7.7-8.0	7,700-8,000	0.278-0.289	481-499
Aluminum	2.7	2700	0.098	169
Copper	8.93	8930	0.323	557.5
Brass	8.50-8.80	8,500-8,800	0.307-0.318	531-499
Gold	19.3	19302	0.697	1205
Silver	10.49	10490	0.379	655
Lead	11.34	11340	0.41	708
Nickel	8.9	8902	0.322	556
Chromium	7.19	7190	0.26	449
Antimony	6.7	6697	0.242	418
Arsenic	5.78	5778	0.209	361
Barium	3.5	3500	0.126	218.5
Beryllium	1.85	1848	0.067	115
Bismuth	9.81	9808	0.354	612
Boron	2.45	2450	0.089	153
Cadmium	8.64	8642	0.312	540
Calcium	1.55	1550	0.056	97
Carbon (graphite)	2.25	2250	0.081	140.5
Cerium	8.16	8160	0.295	509
Cesium	1.9	1903	0.069	119
Cobalt	8.83	8832	0.319	551
Dysprosium	8.55	8551	0.309	534
Erbium	9.07	9066	0.328	566
Europium	5.24	5244	0.189	327
Gadolinium	7.9	7901	0.285	493
Gallium	5.91	5907	0.213	369
Germanium	5.32	5323	0.192	332
Hafnium	13.31	13310	0.481	831
Holmium	8.795	8795	0.318	549
Indium	7.3	7300	0.264	456
Iridium	22.562	22562	0.815	1409
Lanthanum	6.15	6146	0.222	384
Lithium	0.533	533	0.019	33.3
Lutetium	9.84	9841	0.356	614
Magnesium	1.74	1738	0.063	108.5
Manganese	7.43	7430	0.268	464
Mercury	13.55	13546	0.489	846

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Molybdenum	10.22	10220	0.369	638
Neodymium	7.01	7008	0.253	438
Niobium	8.57	8570	0.31	535
Osmium	22.587	22587	0.816	1410
Palladium	12.02	12020	0.434	750
Phosphorus (white)	1.83	1830	0.066	114
Platinum	21.45	21450	0.775	1339
Plutonium	19.86	19860	0.717	1240
Potassium	0.855	855	0.031	53
Praseodymium	6.773	6773	0.245	423
Promethium	7.264	7264	0.262	453
Protactinium	15.43	15430	0.557	963
Rhenium	21.02	21020	0.759	1312
Rhodium	12.41	12410	0.448	775
Rubidium	1.532	1532	0.055	96
Ruthenium	12.45	12450	0.45	777
Samarium	7.52	7520	0.272	469.5
Scandium	2.99	2989	0.108	187
Selenium	4.81	4809	0.174	300
Silicon	2.33	2329	0.084	145
Sodium	0.97	967	0.035	60
Strontium	2.6	2600	0.094	162
Tantalum	16.6	16600	0.6	1036
Technetium	11.5	11500	0.415	718
Tellurium	6.24	6237	0.225	389
Terbium	8.23	8230	0.297	514
Thallium	11.87	11872	0.429	741
Thorium	11.8	11800	0.426	737
Thulium	9.32	9321	0.337	582
Tin	5.765	5765	0.208	360
Titanium	4.51	4507	0.163	281
Tungsten	19.25	19254	0.696	1202
Uranium	19.05	19050	0.688	1189
Vanadium	6.16	6160	0.223	385
Ytterbium	6.9	6903	0.249	431
Yttrium	4.47	4469	0.161	279
Zinc	7.13	7133	0.258	445
Zirconium	6.51	6505	0.235	406