

Metal Density Table

Density table of common metal materials, including the density of ferrous, nonferrous metal materials and their alloys.

Metals	Density				
	g/cm ³	kg/m ³	lb/in ³	lb/ft ³	
Grey cast iron	6.6~7.4	6600-7400	0.2384-0.2673	412.03-461.97	
White cast iron	7.4~7.7	7400-7700	0.2673-0.2781	461.97-480.70	
Malleable iron	7.2~7.4	7200-7400	0.2601-0.2673	449.48-461.97	
Cast steel	7.80	7800	0.2818	486.94	
Industrial pure iron	7.87	7870	0.2843	491.31	
Plain carbon steel	7.85	7850	0.2836	490.06	
High quality carbon steel	7.85	7850	0.2836	490.06	
Carbon tool steel	7.85	7850	0.2836	490.06	
Free cutting steel	7.85	7850	0.2836	490.06	
Manganese steel	7.81	7810	0.2822	487.56	
15CrA chromium steel	7.74	7740	0.2796	483.19	
20Cr, 30Cr, 40Cr chromium steel	7.82	7820	0.2825	488.19	
38CrA chromium steel	7.80	7800	0.2818	486.94	
Chromium vanadium, chromium nickel, chromium nickel molybdenum, chromium manganese, silicon, chromium manganese silicon nickel, silicon manganese, silicon chromium steel	7.85	7850	0.2836	490.06	
Chromium nickel tungsten steel	7.80	7800	0.2818	486.94	
Chromium molybdenum aluminum steel	7.65	7650	0.2764	477.57	
High speed tool steel containing tungsten 9	8.30	8300	0.2999	518.15	
High speed tool steel containing tungsten 18	8.70	8700	0.3143	543.12	
High strength alloy steel	7.82	7820	0.2825	488.19	
Bearing steel	7.81	7810	0.2822	487.56	
Stainless steel	0Cr13,1Cr13,2Cr13,3Cr13,4Cr13,Cr17Ni2,Cr18,9Cr18,Cr25,Cr28	7.75	7750	0.2800	483.82
	Cr14,Cr17	7.70	7700	0.2782	480.70
	0Cr18Ni9,1Cr18Ni9,Cr18Ni9Ti,2Cr18Ni9	7.85	7850	0.2836	490.06
	1Cr18Ni11Si4A1Ti	7.52	7520	0.2717	469.46
7 Aluminum bronze	7.80	7800	0.2818	486.94	
19-2 Aluminum bronze	7.60	7600	0.2746	474.45	

9-4,10-3-1.5 Aluminum bronze		7.50	7500	0.2710	468.21
10-4-4 Aluminum bronze		7.46	7460	0.2695	465.71
Beryllium bronze		8.30	8300	0.2999	518.15
3-1 Silicon bronze		8.47	8470	0.3060	528.77
1-3 Silicon bronze		8.60	8600	0.3107	536.88
1 Beryllium bronze		8.80	8800	0.3179	549.37
0.5 cadmium bronze		8.90	8900	0.3215	555.61
0.5 chrome bronze		8.90	8900	0.3215	555.61
1.5 Manganese bronze		8.80	8800	0.3179	549.37
5 Manganese bronze		8.60	8600	0.3107	536.88
Cupronickel	B5,B19,B30,BMn40-1.5	8.90	8900	0.3215	555.61
	BMn3-12	8.40	8400	0.3035	524.40
	BZN15-20	8.60	8600	0.3107	536.88
	BA16-1.5	8.70	8700	0.3143	543.12
	BA113-3	8.50	8500	0.3071	530.64
Pure aluminum		2.70	2700	0.0975	168.56
Antirust aluminium	LF2,LF43	2.68	2680	0.0968	167.31
	LF3	2.67	2670	0.0965	166.68
	LF5,LF10,LF11	2.65	2650	0.0957	165.43
	LF6	2.64	2640	0.0954	164.81
	LF21	2.73	2730	0.0986	170.43
Duralumin	LY1,LY2,LY4,LY6	2.76	2760	0.0997	172.30
	LY3	2.73	2730	0.0986	170.43
	LY7,LY8,LY10,LY11,LY14	2.80	2800	0.1012	174.80
	LY9,LY12	2.78	2780	0.1004	173.55
	LY16,LY17	2.84	2840	0.1026	177.30
Wrought aluminium	LD2,LD30	2.70	2700	0.0975	168.56
	LD4	2.65	2650	0.0957	165.43
	LD5	2.75	2750	0.0994	171.68
Stainless steel	1Cr18Ni11Nb,Cr23Ni18	7.90	7900	0.2854	493.18
	2Cr13Ni4Mn9	8.50	8500	0.3071	530.64
	3Cr13Ni7Si2	8.00	8000	0.2890	499.42
Pure copper		8.90	8900	0.3215	555.61
59, 62, 65, 68 Brass		8.50	8500	0.3071	530.64
80, 85, 90 Brass		8.70	8700	0.3143	543.12
96 Brass		8.80	8800	0.3179	549.37
59-1, 63-3 lead brass		8.50	8500	0.3071	530.64
74-3 Lead Brass		8.70	8700	0.3143	543.12
90-1 tin brass		8.80	8800	0.3179	549.37
70-1 tin brass		8.54	8540	0.3085	533.14
60-1 and 62-1 tin brass		8.50	8500	0.3071	530.64

77-2 aluminum brass		8.60	8600	0.3107	536.88
67-2.5, 66-6-3-2, 60-1-1 aluminum brass		8.50	8500	0.3071	530.64
Nickel brass		8.50	8500	0.3071	530.64
Manganese brass		8.50	8500	0.3071	530.64
Silicon brass, nickel brass, iron brass		8.50	8500	0.3071	530.64
5-5-5 Cast tin bronze		8.80	8800	0.3179	549.37
3-12-5 Cast tin bronze		8.69	8690	0.3139	542.50
6-6-3 Cast tin bronze		8.82	8820	0.3186	550.61
7-0.2, 6.5-0.4, 6.5-0.1, 4-3 tin bronze		8.80	8800	0.3179	549.37
4-0.3, 4-4-4 tin bronze		8.90	8900	0.3215	555.61
4-4-2.5 Tin bronze		8.75	8750	0.3161	546.25
5 Aluminum bronze		8.20	8200	0.2962	511.91
Wrought aluminum	LD8	2.77	2770	0.1001	172.93
	LD7,LD9,LD10	2.80	2800	0.1012	174.80
Superduralumin		2.85	2850	0.1030	177.92
LT1 special aluminum		2.75	2750	0.0994	171.68
Industrial pure magnesium		1.74	1740	0.0629	108.62
Wrought magnesium	MB1	1.76	1760	0.0636	109.87
	MB2,MB8	1.78	1780	0.0643	111.12
	MB3	1.79	1790	0.0647	111.75
	MB5,MB6,MB7,MB15	1.80	1800	0.0650	112.37
Cast magnesium		1.80	1800	0.0650	112.37
Industrial pure titanium (TA1, TA2, TA3)		4.50	4500	0.1626	280.93
Titanium alloy	TA4,TA5,TC6	4.45	4450	0.1608	277.80
	TA6	4.40	4400	0.1590	274.68
	TA7,TC5	4.46	4460	0.1611	278.43
	TA8	4.56	4560	0.1647	284.67
	TB1,TB2	4.89	4890	0.1767	305.27
	TC1,TC2	4.55	4550	0.1644	284.05
	TC3,TC4	4.43	4430	0.1600	276.56
Titanium alloy	TC7	4.40	4400	0.1590	274.68
	TC8	4.48	4480	0.1619	279.68
	TC9	4.52	4520	0.1633	282.17
	TC10	4.53	4530	0.1637	282.80
Pure nickel, anode nickel, electric vacuum nickel		8.85	8850	0.3197	552.49
Nickel copper, nickel magnesium, nickel silicon alloy		8.85	8850	0.3197	552.49
Nickel chromium alloy		8.72	8720	0.3150	544.37
Zinc ingot (Zn0.1, Zn1, Zn2, Zn3)		7.15	7150	0.2583	446.36
Cast zinc		6.86	6860	0.2478	428.26
4-1 Cast zinc aluminum alloy		6.90	6900	0.2493	430.75

4-0.5 Cast zinc aluminum alloy	6.75	6750	0.2439	421.39
Lead and lead antimony alloys	11.37	11370	0.4108	709.81
Lead anode plate	11.33	11330	0.4093	707.31