

Material			Specific Gravity
Aluminium	cast		2.569
Aluminium	wrought		2.681
	bronze		7.787
Antimony			6.712
Arsenic			5.748
Bismuth			9.827
		From	7.868
Brass	cast	to	8.430
		Average	8.109
Brass	Muntz-metal		8.221
Brass	naval (rolled)		8.510
Brass	sheet		8.462
Brass	wire		8.558
		From	8.478
Bronze (gun metal)		to	8.863
		Average	8.735
Copper,	Cast		8.622
Copper	hammered		8.927
Copper	sheet		8.815
Copper	wire		8.895
Gold	(pure)		19.316
Gold	standard 22 carat fine (Gold 11, copper 1)		17.502
Iron	Cast	From	6.904
		to	7.386
		Average	7.209

		From	7.547
Iron	Wrought	to	7.803
		Average	7.707
Lead	cast		11.368
	sheet		11.432
Manganese			8.012
Nickel	Cast		8.285
	rolled		8.687
Platinum			21.516
Silver			10.517
		From	7.820
Steel		to	7.916
		Average	7.868
Tin			7.418
White metal	babbitt's		7.322
Zinc	cast		6.872
	sheet		7.209

Woods (at 15 percent moisture content by mass.)

As a general rule, solids and liquids are usually quoted by mass, while gasses are quoted by volume)

Material	Density (kg/m ³)	Material	Density (kg/m ³)
Ash, European	704.81	Mahogany, African	560.65
Beech, European	720.83	Mahogany Honduras	544.63
Birch, European	672.78	Oak, American red	784.90
Boxwood, European	929.07	Oak, American white	768.89
Cork	240.28	Oak, English	720.83

Ebony, Ceylon	1185.37	Pine, Yellow	416.48
Greenheart	1041.20	Redwood (Scots Pine)	512.59
Hornbeam	768.89	Teak	656.76
Larch, European	592.68	Whitewood, European	464.54
Lignum - vitae	1249.44		

Stones, Earths, etc.

Material	Density (kg/m ³)	Material	Density (kg/m ³)
Asphaltum	1025 - 1794	Grindstone	2146.47
Brick, common	1601 - 2002	Lime, quick	832.96
Brick, fire	2194 - 2402	Limestones and marbles	2402 - 2867
Cement, Portland	1281 - 1441	Mortar, hardened	1409 - 1890
Clay	1922	Mud, dry and close	1281 - 1762
Concrete	1922 - 2242	Mud, wet and fluid	1665 - 1922
Earth	1233 - 1922	Sand, dry	1409 - 1762
Glass, crown	2498.88	Sand, wet	1890 - 2066
Glass, flint	2995.45	Sandstone	2082 - 2723
Glass, plate	2707.12	Victoria stone (crushed)	2306
Granite	2627 - 2803	granite, Portland	2306
Gravel	1441 - 2002	cement, silica	2306

Miscellaneous Substances

Material	Density (kg/m ³)	Material	Density (kg/m ³)
Bone	1906.20	Ivory	1874.16
Grain, barley	640.74	Lard	948.29
Grain, oats	528.61	Leather	961.11
Grain, wheat	800.92	Rosin	1105.27
Guttapercha	977.13	Sulphur	2002.31
Ice	919.46	Tallow	929.07
Indiarubber	929.07	Wax	969.12

Weights of Woods (dry wood)

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Alder	528.6	Elder	640.7
Almond	688.8	Elm, American	704.8
Greenheart	1121.3	Elm, Canadian	720.8
Ash, American	640.7	Elm, Common	672.8
Ash, European	688.8	Fir, Danzig	608.7
Ash, Mountain	688.8	Fir, Riga	576.7
balsa	112.1/128.1	Fir, silver	480.6
Bamboo	400.5	Fir, Spruce	480.6
Beech, common	736.8	Hackmatack	624.7
Beech, Australian	528.6	Hazel	624.7
Birch, American	672.8	Hickery	800.9
Birch, English	720.8	Holley	608.7
Boxwood, Cape	833.0	Hornbeam	720.8
Boxwood, West Indian	784.9	Ironwood	1201.4
Boxwood, Common	1217.4	Jarrah	913.1

Cedar, Cuban	448.5	juniper	592.7
Cedar, Virginian	528.6	Lancewood	913.1
Cedar, Indian	448.5	Larch	608.7
Cherry, American	576.7	Lignum- vitae	1329.5
Cherry, English	608.7	Lime or Linden	512.6
Chestnut, Sweet	640.7	Logwood	913.1
Chestnut, Horse	560.6	Mahogany, East Indian	688.8
Cocus	1105.3	Mahogany, Cuban	752.9
Cogwood	1073.2	Mahogany, Australian	1105.3
Cork	96.1	Mahogany, Spanish	768.9
Cottonwood, American	544.6	Maple, Bird's-eye	576.7
Cypress	480.6	Maple, Hard	672.8
Dogwood	784.9	Maple, Soft	608.7
Ebony	1169.3	Oak, African	945.1

Weights of Woods (dry wood) Continued...

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Oak, American	720.8	Rosewood	881.0
Oak, Danzig	833.0	Satinwood	929.1
Oak, English	736.8	Spruce	480.6
Pine, Pitch	704.8	Sycamore	640.7
Pine, Red	544.6	Teak	800.9
Pine, White	432.5	Walnut	656.8
Pine, Yellow	528.6	Whitewood	528.6

Plane	560.6	Willow	528.6
Poplar	416.5	Yew	833.0

Weights of some Liquids

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Acid, nitric (91%)	1505.7	Oils	929.1
Acid, Sulphuric (87%)	1794.1	Paraffin	897.0
Alcohol	784.9	Petrol	881.0
Benzine	736.8	Petrol Refined	800.9
Gasoline	672.8	Water, fresh	993.1
Mercury	13599.7	Water, Salt	1025.2

Weights of some Metals

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Aluminium	2579.0	lead	10988.7
Brass	8329.6	Nickel	8794.1
Bronze	8169.4	Platinum	21496.8
Copper	8890.2	Silver	10492.1
Gold	19302.2	Steel	7849.0
Gun-metal	8650.0	Tin	7176.3
Iron, cast	7208.3	White-metal	7368.5
Iron, Wrought	7688.9	Zinc	7176.3

Weights of some Soils

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Chalk	2723.1	Mud, Wet	1922.2

Clay	2162.5	Sand, dry, loose	1601.8
Earth, loose	1201.4	Sand, wet	2082.4
Gravel	1762.0	Shale	2563.0
Mud, dry	1601.8		

Density of Stones & Masonry

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Brick, pressed	2402.8	Lime mortar	1681.9
Brick, common	2002.3	Limestone, comp'r'd	2723.1
Brick, soft	1601.8	Limestone, granular	2002.3
Brickwork	1794.1	Limestone, loose broken	1521.8
Cement	1441.7	Limestone, walls	2643.0
Concrete	2242.6	Marble	2723.1
Concrete, reinforced	2402.8	Plaster of paris	2242.6
Concrete, coke breeze	1441.7	Rubble masonry	2242.6
Flint	2563.0	Sandstone	2402.8
Granite	2723.1	Sandstone, masonry	2242.6
Lime	961.1	Slate	2803.2

Density of some Miscellaneous Substances

Material	Density (kg/m ³)	Material	Density(kg/m ³)
Anthracite, broken loose	865.0	Grain, Wheat	768.9

Asbestos	2995.5	Grain, barley	624.7
Asphalt	1409.6	Grain, Oats	512.6
Coal, bituminous	1361.6	Hay & straw, in bales	320.4
Coal, broken, loose	800.9	Ice	913.1
Coke	720.8	salt	720.8
Coke, loose	480.6	Sulphur	2002.3
Flour	6408.7	White Lead	3155.6
Glass, window	2563.0	Glass, flint	3043.5