

Specific Gravity & Weight Per Cubic Foot:

Material	Specific Gravity	lb. per cf-
Acetic acid, 90%	1.06	66.3
Alcohol, ethyl	0.79	49
Alcohol, methyl	0.79	49
Alfalfa, ground	0.26	16
Alum, lumpy	0.88	55
Alum, pulverized	0.75	47
Alumina	0.96	60
Aluminum, solid	2.64	165
Aluminum, oxide	1.52	95
Ammonia gas	0	0.05
Ammonium sulfate	0.83	52
Andesite, solid	2.77	173
Antimony, cast	6.7	418
Apple wood, dry	0.71	44
Apples	0.64	40
Arsenic	5.67	354
Asbestos, shredded	0.35	22
Asbestos, solid	2.45	153
Ash wood, black, dry	0.54	34
Ash wood, white, dry	0.67	42
Ashes	0.66	41
Aspen wood	0.42	26
Asphalt, crushed	0.72	45
Babbitt	7.28	454
Bagasse	0.12	7.5
Bakelite, solid	1.36	85
Baking powder	0.72	45
Barium	3.78	236

D & K Tanks Specific Gravity

Bark, wood refuse	0.24	15
Barley	0.61	38
Barite, crushed	2.88	180
Basalt, broken	1.96	122
Basalt, solid	3.01	188
Bauxite, crushed	1.28	80
Beans, castor	0.58	36
Beans, cocoa	0.59	37
Beans, navy	0.8	50
Beans, soy	0.72	45
Beeswax	0.96	60
Beets	0.72	45
Bentonite	0.59	37
Bicarbonate of soda	0.69	43
Birch wood, yellow	0.71	44
Bismuth	9.79	611
Bones, pulverized	0.88	55
Borax, fine	0.85	53
Bran	0.26	16
Brass, cast	8.56	534
Brass, rolled	8.56	534
Brewers grain	0.43	27
Brick, common red	1.92	120
Brick, fire clay	2.4	150
Brick, silica	2.05	128
Brick, chrome	2.8	175
Brick, magnesia	2.56	160
Bronze	8.16	509
Buckwheat	0.66	41
Butter	0.87	54
Cadmium	8.65	540

D & K Tanks Specific Gravity

Calcium carbide	1.2	75
Caliche	1.44	90
Carbon, solid	2.15	134
Carbon, powdered	0.08	5
Carbon dioxide	0	0.12
Carbon monoxide	0	0.08
Cardboard	0.69	43
Cedar, red	0.38	24
Cement, Portland	3.15	94
Cement, mortar	2.16	135
Cement, slurry	1.44	90
Chalk, solid	2.5	156
Chalk, lumpy	1.44	90
Chalk, fine	1.12	70
Charcoal	0.21	13
Cherry wood, dry	0.56	35
Chestnut wood, dry	0.48	30
Chloroform	1.52	95
Chocolate, powder	0.64	40
Chromic acid, flake	1.2	75
Chromium	6.86	428
Chromium ore	2.16	135
Cinders, furnace	0.91	57
Cinders, Coal, ash	0.64	40
Clay, dry excavated	1.09	68
Clay, wet excavated	1.83	114
Clay, dry lump	1.07	67
Clay, fire	1.36	85
Clay, wet lump	1.6	100
Clay, compacted	1.75	109
Clover seed	0.77	48

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Coal, Anthracite, solid	1.51	94
Coal, Anthracite, broken	1.11	69
Coal, Bituminous, solid	1.35	84
Coal, Bituminous, broken	0.83	52
Cobalt	8.75	546
Coconut, meal	0.51	32
Coconut, shredded	0.35	22
Coffee, fresh beans	0.56	35
Coffee, roast beans	0.43	27
Coke	0.42	26
Concrete, Asphalt	2.24	140
Concrete, Gravel	2.4	150
Concrete, Limestone w/Portland	2.37	148
Copper, cast	8.69	542
Copper, rolled	8.91	556
Copper sulfate, ground	3.6	225
Copra, medium size	0.53	33
Copra, meal, ground	0.64	40
Copra, expeller cake ground	0.51	32
Copra, expeller cake chopped	0.46	29
Cork, solid	0.24	15
Cork, ground	0.16	10
Corn, on the cob	0.72	45
Corn, shelled	0.72	45
Corn, grits	0.67	42
Cottonseed, dry, de-linted	0.56	35
Cottonseed, dry, not de-linted	0.32	20
Cottonseed, cake, lumpy	0.67	42
Cottonseed, hulls	0.19	12
Cottonseed, meal	0.59	37
Cottonseed, meats	0.64	40

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Cottonwood	0.42	26
Cryolite	1.6	100
Cullet	1.6	100
Culm	0.75	47
Cypress wood	0.51	32
Dolomite, solid	2.9	181
Dolomite, pulverized	0.74	46
Dolomite, lumpy	1.52	95
Earth, loam, dry, excavated	1.25	78
Earth, moist, excavated	1.44	90
Earth, wet, excavated	1.6	100
Earth, dense	2	125
Earth, soft loose mud	1.73	108
Earth, packed	1.52	95
Earth, Fullers, raw	0.67	42
Ebony wood	0.96	60
Elm, dry	0.56	35
Emery	4.01	250
Ether	0.74	46
Feldspar, solid	2.56	160
Feldspar, pulverized	1.23	77
Fertilizer, acid phosphate	0.96	60
Fir, Douglas	0.53	33
Fish, scrap	0.72	45
Fish, meal	0.59	37
Flaxseed, whole	0.72	45
Flour, wheat	0.59	37
Fluorspar, solid	3.21	200
Fluorspar, lumps	1.6	100
Fluorspar, pulverized	1.44	90
Garbage	0.48	30

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Glass, window	2.58	161
Glue, animal, flaked	0.56	35
Glue, vegetable, powdered	0.64	40
Gluten, meal	0.63	39
Gneiss, bed in place	2.87	179
Gneiss, broken	1.86	116
Gold, pure 24Kt	19.29	1204
Granite, solid	2.69	168
Granite, broken	1.65	103
Graphite, flake	0.64	40
Gravel, loose, dry	1.52	95
Gravel, w/sand, natural	1.92	120
Gravel, dry 1/4 to 2 inch	1.68	105
Gravel, wet 1/4 to 2 inch	2	125
Gypsum, solid	2.79	174
Gypsum, broken	1.81	113
Gypsum, crushed	1.6	100
Gypsum, pulverized	1.12	70
Halite (salt), solid	2.32	145
Halite (salt), broken	1.51	94
Hydrochloric acid 40%	1.2	75
Ice, solid	0.92	57.4
Ice, crushed	0.59	37
Ilmenite	2.31	144
Iridium	22.16	1383
Iron, cast	7.21	450
Iron, wrought	7.77	485
Iron oxide pigment	0.4	25
Ivory	1.84	115
Kaolin, green crushed	1.03	64
Kaolin, pulverized	0.35	22

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Lead, cast	11.35	708
Lead, rolled	11.39	711
Lead, red	3.69	230
Lead, white pigment	4.09	255
Leather	0.95	59
Lignite, dry	0.8	50
Lignum Vitae, dry	1.28	80
Lime, quick, lump	0.85	53
Lime, quick, fine	1.2	75
Lime, stone, large	2.69	168
Lime, stone, lump	1.54	96
Lime, hydrated	0.48	30
Limonite, solid	3.8	237
Limonite, broken	2.47	154
Limestone, solid	2.61	163
Limestone, broken	1.55	97
Limestone, pulverized	1.39	87
Linseed, whole	0.75	47
Linseed, meal	0.51	32
Locust, dry	0.71	44
Magnesite, solid	3.01	188
Magnesium, solid	1.75	109
Magnesium sulfate, crystal	1.12	70
Magnetite, solid	5.05	315
Magnetite, broken	3.29	205
Mahogany, Spanish, dry	0.85	53
Mahogany, Honduras, dry	0.54	34
Malt	0.34	21
Manganese, solid	7.61	475
Manganese oxide	1.92	120
Manure	0.4	25

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Maple, dry	0.71	44
Marble, solid	2.56	160
Marble, broken	1.57	98
Marl, wet, excavated	2.24	140
Mercury @ 32oF	13.61	849
Mica, solid	2.88	180
Mica, broken	1.6	100
Milk, powdered	0.45	28
Molybdenum	10.19	636
Mortar, wet	2.4	150
Mud, packed	1.91	119
Mud, fluid	1.73	108
Nickel, rolled	8.67	541
Nickel silver	8.45	527
Nitric acid, 91%	1.51	94
Nitrogen	0	0.08
Oak, live, dry	0.95	59
Oak, red	0.71	44
Oats	0.43	27
Oats, rolled	0.3	19
Oil cake	0.79	49
Oil, linseed	0.94	58.8
Oil, petroleum	0.88	55
Oxygen	0	0.09
Oyster shells, ground	0.85	53
Paper, standard	1.2	75
Paraffin	0.72	45
Peanuts, shelled	0.64	40
Peanuts, not shelled	0.27	17
Peat, dry	0.4	25
Peat, moist	0.8	50

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Peat, wet	1.12	70
Pecan wood	0.75	47
Phosphate rock, broken	1.76	110
Phosphorus	2.34	146
Pine, White, dry	0.42	26
Pine, Yellow Northern, dry	0.54	34
Pine, Yellow Southern, dry	0.72	45
Pitch	1.15	72
Plaster	0.85	53
Platinum	21.51	1342
Porcelain	2.4	150
Porphyry, solid	2.55	159
Porphyry, broken	1.65	103
Potash	1.28	80
Potassium chloride	2	125
Potatoes, white	0.77	48
Pumice, stone	0.64	40
Quartz, solid	2.64	165
Quartz, lump	1.55	97
Quartz sand	1.2	75
Redwood, California, dry	0.45	28
Resin, synthetic, crushed	0.56	35
Rice, hulled	0.75	47
Rice, rough	0.58	36
Rice grits	0.69	43
Rip-Rap	1.6	100
Rosin	1.07	67
Rubber, caoutchouc	0.95	59
Rubber, manufactured	1.52	95
Rubber, ground scrap	0.48	30
Rye	0.71	44

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Salt cake	1.44	90
Salt, course	0.8	50
Salt, fine	1.2	75
Saltpeter	1.2	75
Sand, wet	1.92	120
Sand, wet, packed	2.08	130
Sand, dry	1.6	100
Sand, loose	1.44	90
Sand, rammed	1.68	105
Sand, water filled	1.92	120
Sand w/ Gravel, dry	1.73	108
Sand w/ Gravel, wet	2	125
Sandstone, solid	2.32	145
Sandstone, broken	1.51	94
Sawdust	0.27	17
Sewage, sludge	0.72	45
Shale, solid	2.68	167
Shale, broken	1.59	99
Silver	10.46	653
Slag, solid	2.12	132
Slag, broken	1.76	110
Slag, crushed, 1/4 inch	1.19	74
Slag, furn. granulated	0.96	60
Slate, solid	2.69	168
Slate, broken	1.67	104
Slate, pulverized	1.36	85
Snow, freshly fallen	0.16	10
Snow, compacted	0.48	30
Soap, solid	0.8	50
Soap, chips	0.16	10
Soap, flakes	0.16	10

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Soap, powdered	0.37	23
Soda Ash, heavy	0.96	60
Soda Ash, light	0.43	27
Sodium	0.98	61
Sodium Aluminate, ground	1.15	72
Sodium Nitrate, ground	1.2	75
Soybeans, whole	0.75	47
Spruce, California, dry	0.45	28
Starch, powdered	0.56	35
Steel, cast	7.85	490
Steel, rolled	7.93	495
Stone, crushed	1.6	100
Sugar, brown	0.72	45
Sugar, powdered	0.8	50
Sugar, granulated	0.85	53
Sugar, raw cane	0.96	60
Sugarbeet pulp, dry	0.21	13
Sugarbeet pulp, wet	0.56	35
Sugarcane	0.27	17
Sulfur, solid	2	125
Sulfur, lump	1.31	82
Sulfur, pulverized	0.96	60
Sulfuric acid, 87%	1.79	112
Sycamore, dry	0.59	37
Taconite	2.8	175
Talc, solid	2.69	168
Talc, broken	1.75	109
Tanbark, ground	0.88	55
Tankage	0.96	60
Tar	1.15	72
Tin, cast	7.36	459

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Tobacco	0.32	20
Trap rock, solid	2.88	180
Trap rock, broken	1.75	109
Tungsten	19.62	1224
Turf	0.4	25
Turpentine	0.87	54
Vanadium	5.5	343
Walnut, black, dry	0.61	38
Water, pure	1	62.4
Water, sea	1.03	64.08
Wheat	0.77	48
Wheat, cracked	0.67	42
Willow wood	0.42	26
Wool	1.31	82
Zinc, cast	7.05	440
Zinc oxide	0.4	25

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