

**Bulk Densities of common materials packaged in bulk bags,
and tote bags courtesy of www.inter-bulk.com**

Product	Density (lbs/ft³)
Adipic Acid	45
Alfalfa Meal	22
Alfalfa Pellets	43
Alfalfa Seed	15
Alum fine	50
Alum lumpy	60
Alumina	65
Alumina fines	35
Alumina sized or briquette	65
Aluminum chips, oily	15
Aluminum hydrate	20
Aluminum Oxide	120
Aluminum Silicate (andalusite)	49
Aluminum Sulfate	58
Ammonium Chloride, crystalline	52
Ammonium nitrate	62
Ammonium sulfate	58
Arsenic pulverized	30
Ash, black ground	105
Ashes, coal, dry 1/2"	45
Ashes, coal, dry 3"	40
Ashes, coal, wet 3"	50
Asphalt, crushed 1/2"	45
Baking soda (sodium bicarbonate)	55
Barite (barium sulfate) +1/2-3"	180
Barite powder	180
Barium carbonate	72
Barley, fine, ground	38
Barley, malted	31
Barley, meal	28
Barley, whole	48
Basalt	105
Bauzite, crushed - 3"	85
Bauzite, dry, ground	68
Bentonite, 100-mesh	60
Bentonite, crude	40

Benzene hexachloride	56
Bonchar	40
Bone ash (tricalcium phosphate)	50
Borate of lime	60
Borax, 1/2-2", lump	60
Borax, 2-3", lump	70
Borax, fine	55
Borax, screening 1/2"	60
Boric acid, fine	55
Boron	75
Bran (rice-rye-wheat)	20
Braunite (manganese oxide)	120
Bread crumbs	25
Brewer's grain, spend, dry	30
Brewer's grain, spent, wet	60
Brick, ground, 1/8"	120
Bronze chips	50
Buckwheat	47
Calcine, flour	85
Calcium carbide	90
Calcium phosphate	50
Carborundum	100
Casein	36
Cashew nuts	37
Cast iron chips	200
Caustic soda	88
Caustic soda, flakes	47
Cement, aerated, portland	75
Cement, clinker	95
Cement, motar	133
Cement, portland	94
Charcoal, ground	38
Charcoal, lumps	28
Chocolate, cake, pressed	45
Chrome ore	140
Cinders, blast furnace	57
Cinders, coal	40
Clay, brick, dry, fines	120
Clay, calcined	100
Clay, ceramic, dry, fines	80
Clay, dry, lumpy	75
Clover seed	48

Coal, anthracite, sized, 1/2"	61
Coal, bituminous, mined	60
Coal, bituminous, mined, sized	50
Coal, bituminous, mined, slack	50
Coal, lignite	45
Cocoa, powdered	35
Coke, breeze	35
Coke, loose	35
Coke, petrol,	45
Concrete, pre-mix, dry	120
Copper ore	150
Copper ore, crushed	150
Copper sulfate (bluestone)	95
Copra, cake ground	45
Copra, cake lumpy	30
Copra, lumpy	22
Copra, meal	45
Cork, fine ground	15
Cork, granulated	15
Corn cobs, ground	17
Corn cobs, whole	15
Corn grits	45
Corn meal	40
Corn seed	45
Corn shelled	45
Corn, cracked	50
Corn, germ	21
Cryolite, dust	90
Cryolite, lumpy	110
Dicalcium phosphate	50
Disodium phosphate	31
Dolomite, crushed	100
Dolomite, lumpy	100
Ebonite, crushed	70
Epsom salts (magnesium sulphate)	50
Feldspar, ground	80
Feldspar, lumps	100
Feldspar, powder	100
Feldspar, screenings	80
Ferrous sulphate	75
Fish meal	40
Flaxseed	45

Flaxseed meal (linseed meal)	45
Flour wheat	40
Flue dust, basic oxygen furnace	60
Flue dust, blast furnace	125
Flue dust, boiler H. dry	45
Fluorspar, fine (calcium fluoride)	100
Fluorspar, lumps	110
Flyash	45
Gelatine, granulated	32
Gilsonite	37
Glass, batch	100
Glue, ground	40
Glue, pearl	40
Glue, veg. powdered	40
Gluten, meal	40
Granite, fine	90
Grape pomace	20
Graphite flake	40
Graphite flour	28
Graphite ore	75
Guano, dry	70
Gypsum, calcined	60
Gypsum, calcined, powdered	80
Gypsum, raw - 1"	80
Hay, chopped	12
Hominy, dry	50
Hops, spent, dry	35
Hops, spent, wet	55
Ice, crushed	45
Ice, cubes	35
Ice, flaked	45
Ice, shell	35
Ilmenite ore	160
Iron ore concentrate	180
Iron oxide millscale	75
Iron oxide pigment	25
Kafir (corn)	45
Kaolin clay	63
Kaolin clay-talc	56
Lactose	32
Lead arsenate	72
Lead arsenite	72

Lead carbonate	260
Lead ore - 1/2"	230
Lead ore - 1/8"	270
Lead oxide (red lead) 100 mesh	150
Lead oxide (red lead) 200 mesh	180
Lead sulfide - 100 mesh	260
Limanite, ore, brown	120
Lime, ground, unslaked	65
Lime, hudrated	40
Lime, hudrated, pulverized	40
Lime, pebble	56
Limestone, agricultural	68
Limestone, crushed	90
Limestone, dust	95
Lithopone	50
Magnesium chloride (magnesite)	33
Malt, dry, ground	30
Malt, dry, whole	30
Malt, meal	40
Manganese dioxide	85
Manganese ore	140
Manganese oxide	120
Manganese sulfate	70
Marble, crushed	95
Marl, clay	80
Mica, flakes	22
Mica, ground	15
Mica, pulverized	15
Milk, dried, flake	6
Mill scale (steel)	125
Milo, ground	36
Molybdenite powder	107
Monosodium phosphate	50
Naphthalene flakes	45
Niacin (nicotinic acid)	35
Oats	26
Oats, crushed	22
Oats, flour	35
Oats, rolled	24
Oxalic acid crystals, ethane diacid crystals	60
Oyster shells, ground	60
Paper pulp (6% to 15%)	62

Paper pulp(4% or less)	62
Paraffin cake - 1/2"	45
Perlite, expanded	12
Phosphate acid fertilizer	60
Phosphate rock, broken	85
Phosphate rock, pulverized	60
Phosphate sand	100
Polyethylene resin pellets	35
Polystyrene beads	40
Polyvinyl, chloride pellets	30
Polyvinyl, chloride powder	30
Potash (muriate) dry	70
Potash (muriate) mine rum	75
Potassium carbonate	51
Potassium chloride pellets	130
Potassium nitrate, 1/8"	80
Potassium sulfate	48
Pumice, 1/8"	48
Pyrite pellets	130
Quartz, 1/2"	90
Quartz, 100-mesh	80
Rice, bran	20
Rice, grits	45
Rice, hulled	49
Rice, hulls	21
Rice, polished	30
Rice, rough	36
Rubber, pelleted	55
Rye	48
Rye feed	33
Rye meal	40
Safflower, cake	50
Safflower, meal	50
Safflower, seed	45
Salicylic acid	29
Salt, cake, dry coarse	85
Salt, dry coarse	60
Salt, dry, fine	80
Sand (resin-coated) silica	104
Sand (resin-coated) zircon	115
Sand, dry, bank (damp)	130
Sand, dry, bank (dry)	110

Sand, dry, silica	100
Sand, foundry (shake out)	100
Sea-coal	65
Shale, crushed	90
Shellac, powdered or granulated	31
Silica, flour	80
Slag, blast furnace crushed	180
Slag, furnace, granular, dry	65
Slate, crushed, 1/2"	90
Slate, ground 1/8"	85
Soap, beads or granules	35
Soapstone, talc fine	50
Soda ash, heavy	65
Soda ash, light	35
Sodium aluminate, ground	72
Sodium aluminum sulfate	75
Sodium nitrate	80
Sodium phosphate	60
Sodium sulfite	96
Soybean whole	50
Soybean, cake	43
Soybean, cracked	40
Soybean, flake, raw	25
Soybean, flour	30
Starch	50
Steel turnings, crushed	150
Sugar beet, pulp, dry	15
Sugar, raw	65
Sugar, refined, granulated, dry	55
Sulphur, lumpy, 3"	85
Sulphur, powdered	60
Sunflower seed	38
Talcum powder	60
Talcum, 1/2"	90
Tricalcium phosphate	50
Trisodium phosphate	60
Trisodium phosphate, granular	60
Trisodium phosphate, pulverized	50
Tung nuts	30
Urea Prills, coated	46
Vermiculite, expanded	16
Vermiculite, ore	80

Walnut shells, crushed	45
Wheat, cracked	45
Wheat, germ	28
Wood chips, screened	30
Zinc oxide, heavy	35
Zinc oxide, light	15
Zinc, concentrate residue	78

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