

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Acetylenogen (Calcium Carbide)	70-90
Adipic Acid	45
Alfalfa Meal	14-22
Alfalfa Pellets	42
Alfalfa Seed	10-15
Almonds Broken	27-30
Almonds, Whole Shelled	28-30
Alum-Lumpy	50-60
Alum-Pulverized	45-50
Alumina	55-65
Alumina Fines	35
Alumina Sized or Briquette	65
Aluminate Gel (Aluminate Hydroxide)	45
Aluminum Chips Dry	7-15
Aluminum Chips (Oily)	7-15
Aluminum Hydrate	13-20
Aluminum Ore (See Bauxite)	-
Aluminum Oxide	60-120
Aluminum Silicate (Andalusite)	49
Aluminum Sulfate	45-58
Amianthus (Asbestos)	20-40
Ammonium Chloride (Crystalline)	45-52
Ammonium Nitrate	45-62
Ammonium Sulfate	45-58
Antimony Powder	-
Apple Pomace, Dry	15
Arsenic Oxide (Arsenolite)	100-120
Arsenic Pulverized	30
Asbestos Rock (Ore)	81
Asbestos, Shredded	20-40
Ash, Black Ground	105
Ashes, Coal, Dry-1/2"	35-45
Ashes, Coal, Dry-3"	35-40
Ashes, Coal, Wet-1/2"	45-50
Ashes, Coal, Wet-3"	45-50
Asphalt, Crushed-1/2"	45
Bagasse	7-10

Acetylenogen - Bagasse

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Bakelite, Fine	30-45
Baking Powder	40-45
Baking Soda (Sodium Bicarbonate)	40-55
Barite (Barium Sulfate)+1/2"-3"	120-180
Barite Powder	120-180
Barium Carbonate	72
Bark Wood Refuse	10-20
Barley, Fine, Ground	24-38
Barley, Malted	31
Barley Meal	28
Barley, Whole	36-48
Basalt	80-105
Bauxite, Dry, Ground	68
Bauxite, Crushed-3"	75-85
Beans, Castor, Meal	35-40
Beans, Castor, Whole Shelled	36
Beans, Navy, Dry	48
Beans, Navy, Steeped	60
Bentonite, Crude	34-40
Bentonite, -100 Mesh	50-60
Benzene Hexachloride	56
Bicarbonate of Soda (Baking Soda)	40-45
Blood Dried	35-45
Blood, Ground, Dried	30
Bone Ash (Tricalcium Phosphate)	40-50
Boneblack	20-25
Bonechar	27-40
Bonemeal	50-60
Bones, Whole	35-50
Bones, Crushed	35-50
Bones, Ground	50
Borate of Lime	60
Borax, Fine	45-55
Borax-Screening-1/2"	55-60
Borax, 1&1/2"-2" Lump	55-60
Borax, 2"-3" Lump	60-70
Boric Acid, Fine	55

Bakelite – Boric Acid

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Boron	75
Bran, Rice-Rye-Wheat	16-20
Braunite (Manganese Oxide)	120
Bread Crumbs	20-25
Brewer's Grain, sent, dry	14-30
Brewer's Grain, spent, wet	55-60
Brick, Ground-1/8"	100-120
Bronze Chips	30-50
Buckwheat	37-42
Calcine, Flour	75-85
Calcium Carbide	70-90
Calcium Carbonate (See Limestone)	-
Calcium Fluoride (See Fluorspar)	-
Calcium Hydrate (See Lime, Hydrated)	-
Calcium Hydroxide (See Lime, Hydrated)	-
Calcium Lactate	26-29
Calcium Oxide (See Lime, Unslaked)	-
Calcium Phosphate	40-50
Calcium Sulfate (See Gypsum)	-
Carbon Black, Pelleted	-
Carbon Black, Powder	-
Carborundum	100
Casein	36
Cashew Nuts	32-37
Cast Iron, Chips	130-200
Caustic Soda	88
Caustic Soda, Flakes	47
Celite, (See Diatomaceous Earth)	-
Cement, Clinker	75-95
Cement, Mortar	133
Cement, Portland	94
Cement, Aerated (Portland)	60-75
Cerrusite (See Lead Carbonate)	-
Chalk, Crushed	75-95
Chalk, Pulverized	67-75
Charcoal, Ground	18-28
Charcoal, Lumps	18-28

Boron - Charcoal

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Chocolate, Cake Pressed	40-45
Chrome Ore	125-140
Cinders, Blast Furnace	57
Cinders, Coal	40
Clay (See Bentonite, Diatomaceous Earth, Fuller's Earth, Kaolin & Marl)	-
Clay, Ceramic, Dry, Fines	60-80
Clay, Calcined	80-100
Clay, Brick, Dry, Fines	100-120
Clay, Dry, Lumpy	60-75
Clinker Cement See Cement Clinker	-
Clover Seed	45-48
Coal, Anthracite (River & Culm)	55-61
Coal, Anthracite Sized-1/2"	49-61
Coal, Bituminous, Mined	40-60
Coal, Bituminous, Mined, Sized	45-50
Coal, Bituminous, Mined, Slack	43-50
Coal, Lignite	37-45
Cocoa Beans	30-45
Cocoa, Nibs	35
Cocoa, Powdered	30-35
Cocoanut, Shredded	20-22
Coffee, Chaff	20
Coffee, Green Bean	25-32
Coffee, Ground, Dr	25
Coffee, Ground, Wet	35-45
Coffee, Roasted Bean	20-30
Coffee, Soluble	19
Coke, Breeze	25-35
Coke, Loose	23-35
Coke, Petrol, Calcined	35-45
Compost	30-50
Concrete, Pre-Mix Dry	85-120
Copper Ore	120-150
Copper Ore, Crushed	100-150
Copper Sulphate, (Bluestone)	75-95
Copperas (See Ferrous Sulphate)	-

Chocolate - Copperas

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Copra, Cake Ground	40-45
Copra, Cake, Lumpy	25-30
Copra, Lumpy	22
Copra, Meal	40-45
Cork, Fine Ground	5-15
Cork, Granulated	12-15
Corn, Cracked	40-50
Corn Cobs, Ground	17
Corn Cobs, Whole	12-15
Corn Ear	56
Corn Germ	21
Corn Grits	40-45
Cornmeal	32-40
Corn Oil, Cake	25
Corn Seed	45
Corn Shelled	45
Corn Sugar	30-35
Cottonseed, Cake, Crushed	40-45
Cottonseed, Cake, Lumpy	40-45
Cottonseed, Dry, Delinted	22-40
Cottonseed, Dry, Not Delinted	18-25
Cottonseed, Flakes	20-25
Cottonseed, Hulls	12
Cottonseed, Meal, Expeller	25-30
Cottonseed, Meal, Extracted	35-40
Cottonseed, Meats, Dry	40
Cottonseed, Meats, Rolled	35-40
Cracklings, Crushed	40-50
Cryolite, Dust	75-90
Cryolite, Lumpy	90-110
Cullet, Fine	80-120
Cullet, Lump	80-120
Culm, (See Coal, Anthracite)	-
Cupric Sulphate (Copper Sulfate)	-
Detergent (See Soap Detergent)	-
Diatomaceous Earth	11-17
Dicalcium Phosphate	40-50

Copra – Dicalcium Phosphate

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Disodium Phosphate	25-31
Distiller's Grain, Spent, Dry	30
Distiller's Grain, Spent Wet	40-60
Dolomite, Crushed	80-100
Dolomite, Lumpy	90-100
Earth, Loam, Dry, Loose	76
Ebonite, Crushed	63-70
Egg Powder	16
Epsom Salts (Magnesium Sulfate)	40-50
Feldspar, Ground	65-80
Feldspar, Lumps	90-100
Feldspar, Powder	100
Feldspar, Screenings	75-80
Ferrous Sulfide-1/2"	120-135
Ferrous Sulfide-100M	105-120
Ferrous Sulphate	50-75
Fish Meal	35-40
Fish Scrap	40-50
Flaxseed	43-45
Flaxseed Cake (Linseed Cake)	48-50
Flaxseed Meal (Linseed Meal)	25-45
Flour Wheat	33-40
Flue Dust, Basic Oxygen Furnace	45-60
Flue Dust, Blast Furnace	110-125
Flue Dust, Boiler H. Dry	30-45
Fluorspar, Fine (Calcium Fluoride)	80-100
Fluorspar, Lumps	90-110
Flyash	30-45
Foundry Sand, Dry (See Sand)	-
Fuller's Earth, Dry, Raw	30-40
Fuller's Earth, Oily, Spent	60-65
Fuller's Earth, Calcined	40
Gelena (See Lead Sulfide)	-
Gelatine, Granulated	32
Gilsonite	37
Glass, Batch	80-100
Glue, Ground	40

Disodium Phosphate - Glue

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Glue, Pearl	40
Glue, Veg, Powdered	40
Gluten, Meal	40
Granite, Fine	80-90
Grape Pomace	15-20
Graphite Flake	40
Graphite Flour	28
Graphite Ore	65-75
Guano Dry	70
Gypsum, Calcined	55-60
Gypsum, Calcined, Powdered	60-80
Gypsum, Raw-1"	70-80
Hay, Chopped	8-12
Hexanedioic Acid (See Adipic Acid)	-
Hominy, Dry	35-50
Hops, Spent, Dry	35
Hops, Spent, Wet	50-55
Ice, Crushed	35-45
Ice, Flaked	40-45
Ice, Cubes	33-35
Ice, Shell	33-35
limenite Ore	140-160
Iron Ore Concentrate	120-180
Iron Oxide Pigment	25
Iron Oxide, Millscale	75
Iron Pyrites (See Ferrous Sulfide)	-
Iron Sulphate (See Ferrous Sulfate)	-
Iron Sulfide (See Ferrous Sulfide)	-
Iron Vitriol (See Ferrous Sulfate)	-
Kafir (Corn)	40-45
Kaolin Cla	63
Kaolin Clay-Talc	42-56
Kryalith (See Cryolite)	-
Lactose	32
Lamp Black (See Carbon Black)	-
Lead Arsenate	72
Lead Arsenite	72

Glue – Lead Arsenite

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Lead Carbonate	240-260
Lead Ore-1/8"	200-270
Lead Ore-1/2"	180-230
Lead Oxide (Red Lead)-100 Mesh	30-150
Lead Oxide (Red Lead)-200 Mesh	30-180
Lead Sulphide-100 Mesh	240-260
Lignite (See Coal Lignite)	-
Limanite, Ore, Brown	120
Lime, Ground, Unslaked	60-65
Lime Hydrated	40
Lime, Hydrated, Pulverized	32-40
Lime, Pebble	53-56
Limestone, Agricultural	68
Limestone, Crushed	85-90
Limestone, Dust	55-95
Lindane (Benzene Hexachloride)	-
Linseed (See Flaxseed)	-
Litharge (Lead Oxide)	-
Lithopone	45-50
Maize (See Milo)	-
Malt, Dry, Ground	20-30
Malt, Meal	36-40
Malt, Dry Whole	20-30
Malt, Sprouts	13-15
Magnesium Chloride (Magnesite)	33
Manganese Dioxide	70-85
Manganese Ore	125-140
Manganese Oxide	120
Manganese Sulfate	70
Marble, Crushed	80-95
Marl, (Clay)	80
Meat, Ground	50-55
Meat, Scrap (W/bone)	40
Mica, Flakes	17-22
Mica, Ground	13-15
Mica, Pulverized	13-15
Milk, Dried, Flake	5-6

Lead Carbonate - Milk



<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Milk, Malted	27-30
Milk, Powdered	20-45
Milk, Sugar	32
Milk, Whole, Powdered	20-36
Mill Scale (Steel)	120-125
Milo, Ground	32-36
Milo Maize (Kafir)	40-45
Molybdenite Powder	107
Monosodium Phosphate	50
Mortar, Wet	150
Mustard Seed	45
Niacin (Nicotinic Acid)	35
Oats	26
Oats, Crimped	19-26
Oats, Crushed	22
Oats, Flour	35
Oat Hulls	8-12
Oats, Rolled	19-24
Oleo Margarine (Margarine)	59
Orange Peel, Dry	15
Oxalic Acid Crystals-Ethane Diacid Crystals	60
Oyster Shells, Ground	50-60
Oyster Shells, Whole	80
Paper Pulp (4% or less)	62
Paper Pulp (6% to 15%)	60-62
Paraffin Cake-1/2"	45
Peanuts, Clean, in shell	15-20
Peanut Meal	30
Peanuts, Raw Uncleaned (unshelled)	15-20
Peanuts, Shelled	35-45
Peas, Dried	45-50
Perlite-Expanded	8-12
Phosphate Acid Fertilizer	60
Phosphate Disodium (See Sodium Phosphate)	-
Phosphate Rock, Broken	75-85
Phosphate Rock, Pulverized	60
Phosphate Sand	90-100

Milk – Phosphate Sand

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Plaster of Paris (See Gypsum)	-
Plumbago (See Graphite)	-
Polystyrene Beads	40
Polyvinyl, Chloride Powder	20-30
Polyvinyl, Chloride Pellets	20-30
Polyethelene, Resin Pellets	30-35
Potash (Muriate) Dry	70
Potash (Muriate) Mine Run	75
Potassium Carbonate	51
Potassium Chloride Pellets	120-130
Potassium Nitrate-1/2"	76
Potassium Nitrate-1/8"	80
Potassium Sulfate	42-48
Potato Flour	48
Pumice-1/8"	42-48
Pyrite, Pellets	120-130
Quartz-100 Mesh	70-80
Quartz-1/2"	80-90
Rice, Bran	20
Rice, Grits	42-45
Rice, Polished	30
Rice, Hulled	45-49
Rice, Hulls	20-21
Rice, Rough	32-36
Rosin-1/2"	65-68
Rubber, Reclaimed Ground	23-50
Rubber, Pelleted	50-55
Rye	42-48
Rye Bran	15-20
Rye Feed	33
Rye Meal	35-40
Rye Middlings	42
Rye, Shorts	32-33
Safflower, Cake	50
Safflower, Meal	50
SafflowerSeed	45
Saffron (See Safflower)	-

Plaster of Paris - Saffron

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Sal Ammoniac (Ammonium Chloride)	-
Salt Cake, Dry Coarse	85
Salt Cake, Dry Pulverized	65-85
Salicylic Acid	29
Salt, Dry Coarse	45-60
Salt, Dry Fine	70-80
Saltpeter (See Potassium Nitrate)	-
Sand Dry Bank (Damp)	110-130
Sand Dry Bank (Dry)	90-110
Sand Dry Silica	90-100
Sand Foundry (Shake Out)	90-100
Sand (Resin Coated) Silica	104
Sand (Resin Coated) Zircon	115
Sawdust, Dry	10-13
Sea-Coal	65
Sesame Seed	27-41
Shale, Crushed	85-90
Shellac, Powdered or Granulated	31
Silicon Dioxide (See Quartz)	-
Silica, Flour	80
Silica Gel-1/2"-3"	45
Slag, Blast Furnace Crushed	130-180
Slag, Furnace Granular, Dry	60-65
Slate, Crushed-1/2"	80-90
Slate, Ground-1/8"	82-85
Sludge, Sewage, Dried	40-50
Sludge, Sewage, Dry Ground	45-55
Soap, Beads or Granules	15-35
Soap, Chips	15-25
Soap Detergent	15-50
Soap, Flakes	5-15
Soap, Powder	20-25
Soapstone, Talc, Fine	40-50
Soda Ash, Heavy	55-65
Soda Ash, Light	20-35
Sodium Aluminate, Ground	72
Sodium Aluminum Fluoride (See Kryolite)	-

Sal Ammoniac - Sodium Aluminum Fluoride

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Sodium Aluminum Sulphate	75
Sodium Bentonite (See Bentonite)	-
Sodium Bicarbonate (See Baking Soda)	-
Sodium Borate (See Borax)	-
Sodium Chloride (See Salt)	-
Sodium Carbonate (See Soda Ash)	-
Sodium Hydrate (See Caustic Soda)	-
Sodium Hydroxide (See Caustic Soda)	-
Sodium Nitrate	70-80
Sodium Phosphate	50-60
Sodium Sulfate (See Salt Cake)	-
Sodium Sulfite	96
Sorghum, Seed (See Kafir or Milo)	-
Soybean, Cake	40-43
Soybean, Cracked	30-40
Soybean, Flake, Raw	18-25
Soybean, Flour	27-30
Soybean Meal, Cold	40
Soybean Meal, Hot	40
Soybeans, Whole	45-50
Starch	25-50
Steel Turnings, Crushed	100-150
Sugar Beet, Pulp, Dry	12-15
Sugar Beet, Pulp, Wet	25-45
Sugar, Refined, Granulated Dry	50-55
Sugar, Refined, Granulated, Wet	55-65
Sugar, Powdered	50-60
Sugar, Raw	80-85
Sulphur, Crushed-1/2"	50-60
Sulphur, Lumpy,-3"	80-85
Sulphur, Powdered	50-60
Sunflower Seed	19-38
Talcum,-1/2"	80-90
Talcum Powder	50-60
Tanbark, Ground	55
Timothy Seed	36
Titanium Dioxide (See Ilmenite Ore)	-

Sodium Aluminum Sulphate - Titanium Dioxide

<b>MATERIALS TABLE</b>	
<b>Material</b>	<b>Average weight in lbs./ft.<sup>3</sup></b>
Tobacco, Scraps	15-25
Tobacco, Snuff	30
Tricalcium Phosphate	40-50
Triple Super Phosphate	50-55
Trisodium Phosphate	60
Trisodium Phosphate, Granular	60
Trisodium Phosphate, Pulverized	50
Tung Nut Meats, Crushed	28
Tung Nuts	25-90
Urea Prills, Coated	43-46
Vermiculite, Expanded	16
Vermiculite, Ore	80
Vetch	48
Walnut Shells, Crushed	35-45
Wheat	45-48
Wheat, Cracked	40-45
Wheat, Germ	18-28
White Lead, Dry	75-100
Wood Chips, Screened	10-30
Wood Flour	16-36
Wood Shavings	8-16
Zinc, Concentrate Residue	75-78
Zinc Oxide, Heavy	30-35
Zinc Oxide, Light	10-15

Tobacco, Scraps - Zinc Oxide