

**Bulk Density Chart for commonly conveyed materials**

<b>Material</b>	<b>Lbs/cu.ft</b>	<b>Kgs/cu.m</b>	<b>Angle</b>
Abrasive Compound	148	2371	
Abrasive Mix	153	2451	
Acetate	35	561	
Acetate Flakes	21	336	
Acrylic Fibres	9	144	
Acrylic Resin	32	513	
Activated Aluminium	15	240	
Activated Carbon	20	320	
Adipic Acid	40	641	
Alcanol	39	625	
Alfalfa Leaf Meal	15	240	
Alfalfa Meal	17	272	
Alfalfa Meal, Fine Ground	19	304	45
Alfalfa Pellets	42	673	
Alfalfa Seed	46	737	
Alumina	40	641	22
Alumina Powder	18	288	
Alumina, Activated	48	769	
Alumina, Calcined.	63	1009	
Alumina, Metal Grade	67	1073	
Aluminium Flake	150	2403	
Aluminium Fluoride	55	881	
Aluminium Magnesium Silicate	21	336	
Aluminium Oxide	80	1282	
Aluminium Powder	44	705	
Aluminium Silicate	33	529	
Aluminium Sulphate	65	1041	
Ammonium Bromide	76	1218	
Ammonium Chloride	38	609	
Ammonium Nitrate	49	785	
Ammonium Nitrate Pills	38	609	
Ammonium Perchloride	62	993	
Ammonium Phosphate	55	881	
Ammonium Sulphate	69	1105	
Amorphous Silica	11	176	
Anthracite, Powdered	35	561	
Antimony Oxide	44	705	
Antioxidant (Granules)	41	657	
Antioxidant (Powder)	28	449	
Apple Slices Diced	15	240	
Aquafloc	10	160	
Arsenic Trioxide	41	657	
Asbestos	22	352	30-44
Asbestos Fibre	20	320	

Asbestos Powder	28	449	
Ascorbic Acid (Coarse)	45	721	
Ascorbic Acid (Fine)	32	513	
Ash, Ground	105	1682	32
Ashes , Dry Loose	38	609	32
Ashes , Wet Loose	47	753	
Baking Powder	56	897	
Barbasco Root	33	529	
Barites	120	1922	
Barium Carbonate	55	881	45
Barium Oxide	63	1009	
Barium Stearate	13	208	
Barium Sulphate	60	961	
Barley (Whole)	40	641	
Barley Meal	28	449	
Barley, Fine Ground	46	737	
Barley, Ground	25	400	
Barley, Malted	30	481	
Barley, Rolled	23	368	
Barley, Scoured	41	657	
Bauxite	45	721	31
Beans (Soya)	46	737	
Beans, White	45	721	
Beet Pulp	18	288	
Bentonite	50	801	
Bicarbonate of Soda	62	993	
Bleach Compound	60	961	
Blood Flour	30	481	
Blood Meal	38.5	617	
Bone Meal Loose	55	881	
Bone, Ground Dry	75	1202	
Borax	60	961	
Boric Acid	54	865	
Bran	35	561	
Brass Powder	100	1602	
Bread Crumbs		96	
Brewers Grains (Dry)	16	256	
Bronze Powder	78	1250	
Buckwheat (Whole)	38	609	
Buckwheat Bran	16	256	
Buckwheat Flour	41	657	
Buckwheat Hulls	13	208	
Buckwheat Middlings	22	352	
Buttermilk Dried	31	497	
Cake Mix	44	705	
Calcium	30	481	
Calcium Borate	61	977	

Calcium Carbide, Crushed	80	1282	
Calcium Carbonate	44	705	
Calcium Chloride	60	961	
Calcium Fluoride	102	1634	
Calcium Hydroxide	40	641	
Calcium Phosphate	48	769	
Calcium Silicate	10	160	
Calcium Stearate	20	320	
Calcium Sulphate	45	721	
Cane Seed	41	657	
Carbon (Pelletised)	42	673	25
Carbon Activated	17	272	20-29
Carbon Black	35	561	30-44
Carbon Black (Beads)	19	304	
Carbon Black (Pelletised)	22	352	25
Carbon Black Graphite	45	721	
Carbon Crystallized	58	929	
Carbon Dust	38	609	
Carbon Granules	59	945	
Casein	36	577	
Caustic Soda	31	497	39-43
Cellulose Acetate	10	160	
Cement	85	1362	
Cement (Portland)	94	1506	
Cement (Portland) Clinker	95	1522	
Cement Dust	50	801	
Ceramic Compound	85	1362	
Cereal Mix	43	689	
Charcoal (Powder)	24	384	
Chemco Burnishing Compound	35	561	
Chicory	34	545	
Chicory (Powder)	30	481	
Chilli Spice	45	721	
Chlorine Compound	28	449	
Chlorine Powder	36	577	
Chocolate Drink Mix	26	417	
Chromic Acid Powder	100	1602	
Cinders, Blast Furnace	57	913	
Cinders, Coal, Ashes & Clinker	40	641	
Cinnamon Powder	35	561	
Citric Acid	48	769	
Clay	50	801	
Clay (Bentonite)	50	801	42
Clay (Calcined)	30	481	
Clay (Fine)	62	993	30-44
Clay (Fines)	70	1121	30-44
Clay (Granite)	32	513	

Clay (Kaolin)	48	769	
Clinker Dust	90	1442	30-40
Clover Seed	48	769	28
Coagulant	36	577	
Coal (Granules)	52	833	27-35
Coal (Pulverized)	38	561	
Coal Anthracite	58	929	27
Coal Bituminous	52	641	35
Coal Dust	35	561	
Coal Powder	40	641	
Cobalt Carbonate	60	961	
Cobalt Fines	256	4101	
Cocoa	35	561	
Cocoa Flavouring	55	881	
Cocoa Shells	30	481	
Coconut Chips	38	609	
Coffee (Instant)	19	304	
Coffee, Green (Beans)	38	609	
Coffee, Roasted (Beans)	23	368	
Coke (Granules)	52	833	
Coke Dust	15	240	
Coke Fines	39	625	
Coke, Calcined (Course)	56	897	
Coke, Calcined (Fines)	59	945	
Coke, Calcined (Intermediate)	59	945	
Coke, Pulverised	45	721	
Copper (Fines)	101	1618	
Copper Hydroxide	25	400	
Copper Sulphate	52	833	
Copra Meal, Loose	27	433	
Cork, Solid	15	240	
Corn Bran	13	208	
Corn Flour	51	817	
Corn Germ Meal	35	561	
Corn Gluten Feed	29	465	
Corn Gluten Meal	37	593	
Corn Grits	42	673	
Corn Mash	45	721	
Corn Meal	40	641	
Corn Oil Meal	34	545	
Corn Starch	42	673	
Corn, (Whole shelled)	45	721	
Corn, Chops (Coarse)	42	673	
Corn, Chops (Fine)	38	609	
Corn, Chops (Medium)	40	641	
Corn, Cracked (Coarse)	40	641	
Corn, Ground	35	561	

Corn, Hominy Feed	27	433	
Corn, Kibbled	21	336	
Cottonseed Cake	42	673	30-44
Cottonseed Delinted	30	481	29
Cottonseed Flour	56	897	
Cottonseed Hulls	12	192	45
Cottonseed Meats	40	641	30-44
Cryolite	86	1378	30-44
Detergent (Flake)	32	513	
Detergent (Powder)	38	609	
Dextrose	36	577	
Diammonium Phosphate	50	801	
Diatomaceous Earth	16	256	
Diatomite	14	224	
Dicalite	12	192	
Dielectric Compound	45	721	
Distillers Grains	18	288	
Dolomite	54	865	
Dolomite Lime	46	737	
Egg Yoke Powder	23	368	
Eggs (Powdered)	22	352	
Electrolyte	60	961	
Epoxy Powder	49	785	
Ferric Chloride	43	689	
Ferric Sulphate	61	977	
Ferro Silicate	78	1250	
Ferro Silicon	87	1394	
Ferrous Carbonate	87	1394	
Fibreglass	22	352	
Filter Cake (Centrifuge)	40	641	
Fish meal	38	609	
Flaxseed	44	705	21
Flint	97	1554	
Floc	13	208	
Floc (Solka)		144	
Flour	48	769	
Flour (Barley Malt)	45	721	
Flour (Barley)	38	609	
Flour (Corn)	39	625	
Flour (Rye)	42	673	
Flour (Soy)	44	705	
Flour (Soya)	40	641	
Flour (Wheat)	42	673	45
Fluorite	78	1250	
Fluorspar	112	1794	45
Flux	145	2323	
Fly Ash	65	1041	

Fullers Earth	35	561	23
Fumaric Acid	40	641	
Garlic (Flakes)	22	352	
Garlic (Powder)	20	320	
Gelatine	45	721	
Glass (Ground)	103	1650	
Glass (Powder)	103	1650	
Glass Beads	100	1602	
Glass Microspheres	62	993	
Gold Powder	53	849	
Grain	36	577	
Granite, Crushed	97	1554	
Graphite	48	769	
Graphite (Flakes)	42	673	
Graphite (Granules)	68	1089	
Graphite (Powder)	35	561	
Graphite (Pulverized)	22	352	
Gravel	110	1762	30-44
Grinding Compound	99	1586	
Ground Bone	50	801	
Gum Base	42	673	
Gum Granules	36	577	
Gum Resin	32	513	
Gypsum	54	865	30
Gypsum (Calcined)	55	881	
Gypsum (Ground)	42	673	
Ice, Crushed	40	641	19
Iron Chromite	114	1826	
Iron Fillings	180	2884	
Iron Ore	162	2595	
Iron Oxide	80	1282	
Iron Oxide (Black)	161	2579	30-44
Iron Oxide (Red)	69	1105	
Iron Powder	175	2804	
Iron Sulphate	80	1282	
Kaolin	49	785	
Kaolin Clay	50	801	
Latex Powder	89	1426	
Lead Arsenate	90	1442	
Lead Carbonate	81	1298	
Lead Chloride Crystals	72	1153	
Lead Oxide	63	1009	
Lead Stabilizer	43	689	
Ligno Sulfinat	30	481	
Lignone	36	577	
Lignosol	24	384	
Lime	35	561	

Lime (Dolomitic)	42	673	
Lime (Granular)	80	1282	
Lime (Hydrated)	40	641	40
Lime (Pebble)	45	721	30
Lime (Pulverised Quick)	60	961	42
Lime (Quick)	55	881	
Limestone	60	961	
Limestone (Ground)	59	945	
Limestone (Pulverised)	68	1089	30-44
Limestone Dust	69	1105	
Limestone Filler	63	1009	
Limestone Flour	69	1105	
Linseed Meal	25	400	34
Liquorice Powder	28	449	
Magnesia	78	1250	
Magnesite	27	433	
Magnesite Light	40	641	
Magnesium Carbonate	12	192	
Magnesium Chips	60	961	
Magnesium Chloride	12	192	
Magnesium Hydroxide	39	625	
Magnesium Oxide	65	1041	
Magnesium Silicate	58	929	
Magnesium Stearate	21	336	
Magnesium Sulphate	52	833	30-44
Magnetite	165	2643	
Malted Barley Flour	40	641	
Malted Wheat Flour	41	657	
Manganese Dioxide	70	1121	
Manganese Ore	110	1762	39
Mannitol	38	609	
Marble (Granular)	80	1282	
Marble (Ground)	93	1490	
Meat Meal	37	593	
Melamine	45	721	
Melamine Powder	32	513	
Metallic Flakes	35	561	
Metallic Powder	165	2643	
Metasol	38	609	
Mica (Flakes)	10	160	
Mica (Powder)	41	657	
Milk (Powdered Whole)	35	561	
Milk (Powdered)	13	208	
Milk (Whole)	32	513	
Millet	40	641	
Milo, Ground	34	545	
Molasses Feed	22	352	

Molding Sand	75	1202	
Molybdenum Disulfide	44	705	
Molybdenum Oxide	98	1570	
Molybdi Oxide	16	256	
Monosodium Phosphate	55	881	
Naphthalene Flakes	36	577	
Natrosol	28	449	
Nickel	60	961	
Nickel Oxide	28	449	
Nickel Powder	75	1202	
Nuts (Almond)	29	465	
Nuts (Cashews)	31	497	
Nuts (Peanuts)	33	529	
Nylon Fibres	10	160	
Nylon Flakes	32	513	
Nylon Pellets (1/8")	35	561	
Nylon Powder	39	625	
Oat Flour	33	529	
Oat Middlings	38	609	
Oats	27	433	21
Oats (Ground)	29	465	
Oats (Rolled)	22	352	30-44
Oats Groats (Whole)	46.5	745	
Oats, Hulls	8	128	
Onions (Chopped)	14	224	
Onions (Minced)	8	128	
Onions (Powdered)	25	400	
Oxalic Acid	52	833	
Oxychloride	36	577	
Oyster Shell (Ground, - 0.5")	53	849	
Peanut Brittle	36	577	
Peanut Meal	28	449	
Peanuts (Shelled)	43	689	
Peanuts (Unshelled)	21	336	
Peat Moss	10	160	
Peppermint Powder	34	545	
Peppers (Chopped)	21	336	
Peppers (Whole)	16	256	
Perlite	15	240	
Perlite filter Aid	8	128	
Perlite Ore	65	1041	
Petroleum Coke	55	881	
Petroleum Coke Dust	25	400	
Phenofil	30	481	
Phenol Formaldehyde	30	481	
Phenolic Powder	32	513	
Phosphate	80	1282	



Phosphate Rock Crushed	69	1105	25-29
Phosphate Rock Dust	90	1442	
Phosphate Rock ground	70	1121	40
Plaster Of Paris	49	785	
Plastic (Beads)	46	737	
Plastic (Cubes)	38	609	
Plastic (Flakes)	48	769	
Plastic (Pellets)	45	721	
Plastic Powder	42	673	
Plastic Resin	40	641	
Polyamide Resin	31	497	
Polycarbonate Resin	44	705	
Polyester Adhesive Powder	30	481	
Polyester Flakes	27	433	
Polyester Resin	34	545	
Polyethylene	43	689	
Polyethylene Beads	42	673	
Polyethylene Film	8	128	
Polyethylene Flakes	7	96	
Polyethylene Granular	30	481	
Polyethylene Pellets	35	561	23
Polyethylene Powder	35	561	
Polyhedral Alcohol	37	593	
Polymer	20	320	
Polymer Reagent	39	625	
Polymer Resin	38	609	
Polypropylene	30	481	
Polypropylene Pellets	32	513	
Polypropylene Powder	33	529	
Polypropylene Flakes	22	352	
Polystyrene Beads	40	641	
Polystyrene Pellets	38	609	
Polystyrene Powder	33	529	
Polyurethane Pellets	45	721	
Polyvinyl Acetate	39	625	
Polyvinyl Alcohol	39	625	
Polyvinyl Chloride	41	657	
Polyvinyl Chloride Pellets	39	625	
Potassium Bromide (5%Moist)	114	1826	
Potassium Carbonate (Potash)	74	1185	
Potassium Chloride	60	961	
Potassium Iodate	129	2067	
Potassium Muriate	66	1057	
Potassium Sulphate	90	1442	
Potatoes (Flakes)	13	208	
Potatoes (Powdered)	48	769	
Potting Soil	16	256	

Poultry Meal	36	577	
Powdered Sugar	35	561	
Pumice Powder	39	625	
PVC Chips	54	865	
PVC Resin	32	513	
Raisins (Moist)	38	609	
Rapeseed	48.3	774	
Red Lead	165	2643	
Red Oxide Pigment	72	1153	
Rice	45	721	30-44
Rice (Puffed)	7	96	
Rice Bran	26	417	
Rock Salt	68	1089	
Rubber (Granules)	28	449	
Rubber Composition Powder	34	545	
Rubber Compound	38	609	
Rubber Crumb	22	352	
Rubber Foam (Chopped)	4	48	
Rubber Powder	33	529	
Rye Bran	18	288	
Rye Feed	33	529	
Rye, Malted	32	513	
Rye, Middlings	42	673	
Rye, Shorts	33	529	
Rye, Whole	44	705	
Salt, Fine Table	86	1378	
Salt, Granulated	80	1282	
Sand	99	1586	
Sand (Dry)	110	1762	
Sand (Fine)	125	2002	
Sand (Foundry)	100	1602	
Sand (Moist)	130	2083	
Sand (Molding)	78	1250	
Sand Foundry, Coarse	96	1538	
Sand Foundry, Fine	104	1666	
Sawdust (Coarse)	25	400	
Sawdust (Fine)	18	288	
Sawdust (Moist)	28	449	
Seed (Grass)	40	641	
Shellac Resin	81	1298	
Silica Flour	80	1282	
Silica Gel	42	673	30-44
Silica Sand	81	1298	
Silicon Carbide	45	721	
Silicon Dioxide	4	48	
Silver (Powder)	69	1105	
Slate (Crushed)	100	1602	28

Soap Flakes	29	465	
Soap Powder	36	577	
Soapstone	47	753	
Soda Ash	54	865	
Soda Ash-Iron Chromite	77	1234	
Sodium Aluminate	61	977	
Sodium Benzoate	47	753	
Sodium Bicarbonate	50	801	
Sodium Bisulphate	90	1442	
Sodium Borate	77	1234	
Sodium Caseinate	21	336	
Sodium Chloride	80	1282	
Sodium Chloride	83	1330	
Sodium Hydrosulphate	70	1121	
Sodium Hydrosulphite	73	1169	
Sodium Hydroxide	60	961	
Sodium Metasilicate	70	1121	
Sodium Naptholine Sulph.	27	433	
Sodium Nitrate	84	1346	24
Sodium Perborate	53	849	
Sodium Pyrophosphate	63	1009	
Sodium Silicate	32	513	
Sodium Sulphate	85	1362	
Sodium Sulphite	102	1634	45
Sodium Thiosulfate	55	881	
Sodium Tripolyphosphate	60	961	
Soybean Flakes	36	577	
Soybean Hulls	25	400	
Soybean Meal	40	641	
Starch (Corn)	43	689	
Stearic Acid (Flakes)	32	513	
Stearic Acid (Powder)	36	577	
Styrene Beads	45	721	
Sucrose	53	849	
Sucrose Octoacetate	33	529	
Sugar (Beet)	50	801	
Sugar (Dextrose)	39	625	
Sugar (Granulated)	44	705	
Sugar (Powdered)	35	561	
Sulphur	45	721	
Sulphur (Granular)	70	1121	
Sunflower Seed	38	609	20
Talcum Powder	55	881	
Tantalum Powder	40	641	
Tea	27	433	
Tea (Flakes)	24	384	
Tea (Powdered)	27	433	

Teflon (Fibre)	30	481	
Teflon (Granules)	36	577	
Teflon (Powdered)	29	465	
Teflon Pellets	60	961	
Terephthalic Acid	30	481	
Thiamine	47	753	
Thionex	30	481	
Thorium Oxide	62	993	
Titanium Dioxide	48	769	30-44
Tobacco (Cigarette)	12	192	
Tobacco (Powdered)	28	449	
Tricalcium Phosphate	35	561	
Trichicrocyanuric Acid	50	801	
Tripolyphosphate	80	1282	
Trisodium Phosphate	50	801	
Tumaric (Acid Fines)	51	817	
Tungsten Carbide	250	4005	
Uranium (Compound)	191	3060	
Uranium (Granules)	184	2948	
Uranium Oxide	108	1730	
Urea	42	673	
Urea Formaldehyde	36	577	
Urea Powder	39	625	
Urea Prills	45	721	
Vermiculite	62	993	
Vinyl Acetate	36	577	
Vinyl Chips (Irregular)	20	320	
Vinyl Compound	36	577	
Vinyl Powder	34	545	
Vinyl Resin	36	577	
Wax (Flake)	50	801	
Wax (Powder)	38	609	
Wheat (Hulls)	44	705	
Wheat (Shaved)	34	545	
Wheat Flour	30	481	
Wheat Gluten	43	689	
Wheat Middling	15	240	
Wheat, Cracked	35	561	30-44
Wheat, Whole	49	785	28
Whey	35	561	
White Lead	85	1362	30-44
Wood Chips	30	481	
Wood Flour	20	320	
Wood Shavings	10	160	
Yeast	59	945	
Zinc Ammonium Chloride	66	1057	
Zinc Carbonate	35	561	

Zinc Oxide	55	881	
Zinc Powder	210	3364	