

Material Density Chart To Aid High Tip Bucket & Loading Shovel Selection



Material – powder, ore, solids, etc.	lbs/cu.ft	kg/cu.m.
Aluminum, oxide	95	1522
Ammonium Nitrate	46	730
Apples	40	641
Arsenic	354	5671
Asbestos – shredded	20	320- 400
Asbestos rock	100	1600
Ashes – wet	46	730- 890
Ashes – dry	36	570- 650
Asphalt, crushed	45	721
Baking powder	45	721
Bark, wood refuse	15	240
Barley	38	609
Beans, castor	36	577
Beans, cocoa	37	593
Beans, navy	50	801
Beans, soy	45	721
Beets	45	721
Bran	16	256
Brewers grain	27	432
Brick, common red	120	1922
Brick, fire clay	150	2403
Cardboard	43	689
Cement – clinker	81	1290-1540
Cement, Portland	94	1506
Cement, mortar	135	2162
Chalk, solid	156	2499
Chalk, fine	70	1121
Charcoal	13	208
Chocolate, powder	40	641
Cinders, furnace	57	913
Cinders, Coal, ash	40	641
Clay, dry excavated	68	1089

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Clay, wet excavated	114	1826
Clover seed	48	769
Coal, Anthracite, solid	94	1506
Coconut, shredded	22	352
Coffee, roast beans	27	432
Coke	36-41	570- 650
Concrete, Limestone with Portland	148	2371
Cork, solid	15	240
Corn, on the cob	45	721
Corn, grits	42	673
Earth, loam, dry, excavated	78	1249
Earth, wet, excavated	100	1602
Fertilizer, acid phosphate	60	961
Flour, wheat	37	593
Garbage, household rubbish	30	481
Glass – broken or cullet	81-121	1290-1940
Glass, window	161	2579
Glue, animal, flaked	35	561
Grain – Maize	47	760
Grain – Barley	37	600
Grain – Millet	47-50	760- 800
Grain – Wheat	49-50	780- 800
Gravel, loose, dry	95	1522
Ice, solid	57	919
Ice, crushed	37	593
Malt	21	336
Manure	25	400
Oak, red	44	705
Oats	27	432
Oats, rolled	19	304
Oyster shells, ground	53	849
Paper, standard	75	1201

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Material – powder, ore, solids, etc.	lbs/cu.ft	kg/cu.m.
Peanuts, shelled	40	641
Peanuts, not shelled	17	272
Peat, dry	25	400
Peat, wet	70	1121
Plaster	53	849
Potash	80	1281
Potatoes, white	48	769
Rubber, manufactured	95	1522
Rye	44	705
Salt, coarse	50	801
Salt, fine	75	1201
Sand, dry	100	1602
Sand, wet	120	1922
Sawdust	13	210
Sewage, sludge	45	721
Slag, solid	132	2114
Slate, solid	168	2691
Snow, freshly fallen	10	160
Snow, compacted	30	481
Stone, crushed	100	1602
Sugar, granulated	53	849
Sugarbeet pulp, dry	13	208
Sugarbeet pulp, wet	35	561
Wheat	48	769
Wood chips – dry	15-32	240- 520
Wool	82	1314
Zinc oxide	25	400

Reference : Density of materials www.simetric.co.uk/si_materials.htm

For more information on Loading Shovel Attachments call 01440706429