

Densities of common Products

Densities of common products - Imperial and SI-units.

Learn more	
Replay	

· density units converter

Note! - be aware that for many of the products listed below there is a difference between "bulk" density" and actual "solid or material density". This may not be clear in the description of the products. Always double check the values with other sources before important calculations.

Material	Density (Ib/ft³) (kg/m3)
ABS resin, pellet	45 721
Acetic acid, liquid	66 1057
Acetone	49 785
Acid phosphate	60 961
Acrylic resin	33 529
Adipic acid, powder	45 721
Air - atmospheric pressure	0.0749 1.2
Alcohol, methyl	49 785
Alfalfa, ground	16 256
Almonds, shelled	30 - 35 481 - 561
Alum powder	50 801
Alumina	60 961
Aluminum hydrate	18 288
Aluminum oxide	60 - 100 961 - 1602
Aluminum silicate	35 - 45 561 - 721
Aluminum, powder	45 - 80 721 - 1281
	7 15



Sponsored Links

Zenake er een m	
Material	Density (Ib/ft³) (kg/m3)
Apple seed	32 513
Asbestos fibers	20 - 25 320 - 400
Asbestos ore, rock	81 1297
Ash, coal, damp	45 - 50 721 - 801
Ash, coal, dry	35 - 45 561 - 721
Asphalt, liquid	65 1041
Aviation fuel (jp-4)	49 785
Bakalite, powder	30 - 40 481 - 641
Baking powder	40 - 45 641 - 721
Baking soda	70 - 80 1121 - 1281
Ball clay	25 400
Bagasse - exiting the final mill	7.5 120
Bagasse - stacked to 2 metre height (moisture = 44%)	11
Bark, wood refuse	176 10 - 20
Barley, flour	160 - 320 25 - 30
Barley, ground	400 - 481 25 - 30
Barley, kernal	400 - 481 35 - 40
Barley, malted	561 - 641 31
Barytes, powdered	497 131
Bauxite, crushed	2098 75 - 85
Beans, caster	1201 - 1362 36
Beans, coffee	577 22 - 40
Beans, lima	352 - 641 45
Beans, navy	721 48
Beans, soy	769 45 - 47
Bentonite, lump	721 - 753 25 - 40
Bentonite, lump Bentonite, powder	400 - 641 50 - 60
·	801 - 961 41
Bicarbonate of soda	657 35 - 45
Blood, dry	561 - 721 55 - 60
Bone meal	881 - 961 50 - 70
Borate of lime	801 - 1121 50 - 70
Borax	801 - 1121 55
Boric acid powder	881 25
Bran, oat	400 15 - 20
	15 - ZU



3 AIVI	Densities of common	Troducts
N.	<i>l</i> laterial	Density (<i>Ib/f</i> t³) (<i>kg/m</i> 3)
	Brick	110 1762
Bro	onze chips	30 - 50 481 - 801
Ви	uckwheat	34 - 42 545 - 673
Buck	wheat flour	40 641
	Butter	54 865
Butter	milk powder	25 - 30 400 - 481
C	ake mix	30 - 40 481 - 641
Calci	ium carbide	75 1201
Calciu	m carbonate	75 1201
Calo	cium oxide	27 432
Cane - whole stick, tangled and tar	mped down as in a cane transport vehicle	12.5
	stick, neatly bundled	200 25
	e - billetted	400 22
Cane - whole stick tangled.	but loosely tipped into cane carrier	352 10
	ne - knifed	160
	- shredded	288
	ide powder	320 100
	undum 75mm	1602
		160 4 - 25
	black powder	64.1 - 400 20 - 45
	n black, pellet	320 - 721
	anulated, activated	50 - 60
	on, graphite	801 - 961 40
	ein powder	641 35 - 40
	shew nuts	561 - 641 32 - 37
	ster beans	513 - 593 36
	cat food	577 20 - 25
		320 - 400 5
	nane, flocking	80.1
	lose acetate	160 1.5 - 3
	ose, flocking	1.5 - 3 24 - 48.1 85 - 95
	powder, portland	85 - 95 1362 - 1522 75 - 90
	ent, clinker	1201 - 1442
Се	real flake	12 192
CI	halk, fine	70 - 75 1121 - 1201
Ch	alk, lump	85 - 90 1362 - 1442



2, iii	
Material	Density (Ib/ft³) (kg/m³)
Cinders, coal	40 - 50 641 - 801
Citric acid	55 881
Clay, attapulgus	55 881
Clay, ball	25 400
Clay, bentonite	51 817
Clay, calcined	80 1281
Clay, dicalite	20 - 50 320 - 801
Clay, kaoline	20 - 60 320 - 961
Clay, sno-brite	15 - 50 240 - 801
Clay, whitex	15 - 50 240 - 801
Clinker, cement	80 1281
Clinker, coal	80 - 90 1281 - 1442
Coal, ground	40 641
Coal, lump	45 - 55 721 - 881
Coconut, shredded	20 - 22 320 - 352
Coffee bean, green	32 - 45 513 - 721
Coffee bean, roasted	22 - 30 352 - 481
Coffee, ground	20 320
Coke, calcined, petrol	35 - 45 561 - 721
Copper ore	135 2162
Concrete	140 - 150 2243 - 2403
Copper oxide	190 3043
Cork, ground	5 - 15 80.1 - 240
Corn bran	13 208
Corn cob, ground	35 561
Corn, cracked	35 - 40 561 - 641
Corn, flaked	6 96.1
Corn, gern	21 336
Corn, gluten	26 - 33 416 - 529
Corn, grits	410 - 029 40 - 45 641 - 721
Corn, ground	30 - 35 481 - 561
Corn, meal	32 - 40 513 - 641
Corn, starch	25 - 35 400 - 561
Corn, sugar, liquid	88 1410
	31



2010 Miles of commen	
Material	Density (Ib/ft³) (kg/m3)
Cottonseed	22 - 40 352 - 641
Cottonseed hulls	12 192
Cottonseed meats	40 641
Cottonseed oil	58 929
Cottonseed, meal	35 - 40 561 - 641
Cream powder	38 609
Cullett, glass	120 1922
Dextrin	50 - 55 801 - 881
Dextrose	31 497
Diatomacaous earth	11 - 14 176 - 224
Dicalcium phosphate	43 689
Diesel fuel	52 833
Dirt, dry	65 - 80 1041 - 1281
Distillars grain	30 481
Dog food, IAMS minichunk	26 416
Dolomite, lump	88 - 99 1410 - 1586
Dolomite, powdered	45 721
Down, goose	1 16
Ebonite, crushed	65 - 70 1041 - 1121
Emery, crushed	95 1522
Epsom salt	40 - 50 641 - 801
Ethanol	56 897
Ethyl ether	44 705
Ethylene glycol	703 70 1121
Expancel microsphere	0.8 12.8
Farina	12.8 44 705
Feathers, goose	1 1 16
Feed pellets, animal	32 - 38 513 - 609
Feldspar, ground	65 - 70
Ferrous sulphate	1041 - 1121 50 - 75
Fertilizer, phosphate	801 - 1201 60 961
Fish meal	25 - 40
Flaxseed	40 - 641 40 - 45
Flour, barley	641 - 721 25 - 230
	400 - 3684 30 - 34



Deficition of continue	
Material	Density (lb/ft ³) (kg/m3)
Flourospar	90 1442
Fluff, poly-fim floc	1.5 - 2 24 - 32
Fly ash	35 - 45 561 - 721
Froot loops, kellogs	8 128
Fullers earth	35 - 45 561 - 721
Gasoline	45 721
Gelatine, granulated	32 513
Gilsonite	37 593
Glass bead	120 1922
Glass cullett crushed	120 1922
Gluten, wheat	30 - 35 481 - 561
Glycerine	78 1249
Golf tees	15 240
Graphite, ground	25 - 30 400 - 481
Grass seed	10 - 35 160 - 561
Gravel	75 - 85 1201 - 1362
Grits, corn	40 - 45 641 - 721
Grits, rice	42 - 45 673 - 721
Gun powder	50 801
Gypsum, lump	90 - 100 1442 - 1602
Gypsum, powder	60 - 80 961 - 1281
Нау	5 - 24 80.1 - 384
HDPE, polethylene	35 - 40 561 - 641
Hominey	37 - 50
Hops	593 - 801 35 561
Hops, spent dry	35 561
Hydrochloric acid	75 1201
Ice, crushed	55 881
Illmenite, ground	120
Iron chips	1922 165 2643
Iron ore	2643 150 2403
Iron oxide	180
Jet fuel, jp4	2883 51
Kafir	817 40 - 45
	641 - 721 32



5,111	
Material	Density (Ib/ft ³) (kg/m3)
Lactose	32 513
LDPE, polyethylene	35 561
Lead oxide	30 - 150 481 - 2403
Liginite	40 - 55 641 - 881
Lima beans dry	45 721
Lime, hydreated	25 - 30 400 - 481
Lime, pebble	55 - 65 881 - 1041
Lime, quicklime	25 - 30 400 - 481
Lime, slaked	32 513
Limestone, crushed	85 - 95 1362 - 1522
Limestone, dust	68 1089
Linseed oil	58 929
Linseed, kernel	25 400
Maize, kernel	45 721
Malt sugar	30 - 35 481 - 561
Malt, dry, whole	30 - 35 481 - 561
Malt, ground, dry	20 320
Malt, spent, damp	55 - 65 881 - 1041
Malt, spent, dry	10 160
Maltodextrin powder	35 561
Manganese ore	134 2146
Manganese sulphate	69 1105
Maple syrup	85 1362
Marble, crushed	85 - 95 1362 - 1522
Menthol	49 785
Metal dust	50 - 120 801 - 1922
Methanol	49 785
Methyl alcohol	49 785
Mica	13 - 30 208 - 481
Milk powder	15 - 20 240 - 320
Milk sugar	32 513
Miller, ground	35 561
Millet seed	48 769
Mineral oil	57 913
	49



2 y avi	
Material	Density (Ib/ft³) (kg/m3)
Mortar, wet	137 2194
Muriate of potash	77 1233
Mustard seed	45 721
Naphthalene	56 897
Napthalene flakes	45 721
Navy beans, dry	48 769
Nitrate of soda	68 1089
Nitric acid	94 1506
Nitrocellulose	25 400
Nylon	35 - 45 561 - 721
Oat flour	30 - 35 481 - 561
Oat hulls	8 - 12 128 - 192
Oat meal	35 - 40 561 - 641
Oat middlings	35 - 45 561 - 721
Oats	25 - 35 400 - 561
Oats, bran	25 400
Oats, ground	25 - 30 400 - 481
Oats, rolled	24 384
Octane	45 721
Oil, linseed	58 929
Oil, olive	57 913
Oil, petroleum, crude	53 849
Oil, sperm whale	57 913
Oil, transformer	55 881
Oil, turpentine	54 865
Oxalic acid, crystals	60 961
Oyster shells, ground	53 849
Paper, shreaded	5 - 12 80.1 - 192
Paraffin wax	45 721
PC, polycarbonate	34 - 36 545 - 577
Peanut shell refuse	4 64.1
Peanuts, shelled	35 - 45 561 - 721
Peanuts, unshelled	15 - 24 240 - 384
Peas, dry	45 - 50
	721 - 801 25 - 50



S AIVI		ensides of confinion Froducts
	Material	Density (lb/ft³) (kg/m3)
	Phosphate rock, crushed	60 - 80 961 - 1281
	Phosphate sand	90 - 100 1442 - 1602
	Plaster of Paris	50 - 55 801 - 881
	Plastic pellet	34 - 48 545 - 769
	Polyethylene, pellet	34 - 36 545 - 577
	Polyvinyl chloride, powder	30 481
	Polyethylene pellet	35 - 37 561 - 593
	Polypropylene powder	25 400
	Polypropylene, pellet	34 - 36 545 - 577
	Polystyrene, expanded beads	1.5 24
	Polystyrene, pellet	40 641
	Polyvinyl chloride, pellet	48 - 52 769 - 833
	Popcorn, popped	2 - 3 32 - 48.1
	Popcorn, shelled	45 - 50 721 - 801
	Potash	50 - 60 801 - 961
	Potasium chloride	2 - 3 32 - 48.1
	Potassium carbonate	45 - 50 721 - 801
	Potassium chloride	75 1201
	Potassium nitrate	76 1217
	Potassium sulphate	42 - 48 673 - 769
	Potato flake	12 192
	Potato starch	40 641
	Pumice	40 - 45 641 - 721
	PVC polyvinyl chloride	48 - 52 769 - 833
	Quartz, sand	80 - 100 1281 - 1602
	Rape seed	45 - 50 721 - 801
	Rice	45 - 50 721 - 801
	Rice bran	20 320
	Rice flour	30 481
	Rice grits	42 - 45 673 - 721
	Rock crushed	134 2146
	Rubber, ground	25 - 50 400 - 801
	Rye	44 705
	Rye, flour	30 481
	• "	45 - 55



27 Miles of confidence of conf	
Material	Density (/Ib/ft³) (kg/m3)
Sand, damp	100 1602
Sand, dry	80 - 100 1281 - 1602
Sand, loose	90 1442
Sand with gravel, dry	108 1730
Sand with gravel, wet	125 2002
Sand, rammed	105 1682
Sand, silica	95 1522
Sand, water filled	120 1922
Sand, wet	120 1922
Sand, wet, packed	130 2082
Sandstone, crushed	80 - 95 1281 - 1522
Sawdust	4 - 12 64.1 - 192
Sea water	64 1025
Semolina	35 - 40 561 - 641
Sesame seed	27 - 37 432 - 593
Shellac powder	30 - 35
Silica flour	481 - 561 35 - 40
Silica gel	561 - 641 30 - 45
Silica sand	481 - 721 95
Slag, furnace	1522 60
Slakes lime	961 32
Slate, crushed	513 80 - 90
Soap powder	1281 - 1442 20 - 25
Soda ash	320 - 400 30 - 45
Sodium bicarbonate	481 - 721 41
Sodium chloride	657 70
Sodium hydroxide, flake	1121 47
Sodium nitrate	753 68 - 80
Sodium sulphate	1089 - 1281 80
Sorghum seed	1281 42 - 50
Soybean flour	673 - 801 27 - 35
Soybean hulls	432 - 561
Soybean meal	96.1 36 - 50
Soybean, flakes	577 - 801 18 - 25
O · · ·	288 - 400 47



20101100 01 00111	
Material	Density (Ib/ft³) (kg/m3)
Starch powder	25 - 35 400 - 561
Steel, chips	150 2403
Sucrose - crystal	99 1586
Sucrose - amorphous	94 1506
Sugar, brown	45 721
Sugar, dextrose, powder	50 801
Sugar, granulated	53 849
Sugar, milk	32 513
Sugar, powdered	50 - 60 801 - 961
Sugar, raw	55 - 65 881 - 1041
Sulfuric acid	112 1794
Sulphur, crushed	55 - 70 881 - 1121
Sunflower seed	36 577
Talcum powder	4 - 62 64.1 - 993
Tar	72 1153
Tea leaves	12 192
Terephalic acid powder	45 721
Timothy seed	36 577
Tin oxide	100 1602
Titanium dioxide	40 - 50 641 - 801
Tobacco, flake	2 - 5 32 - 80.1
Toulene	54 865
Transmission oil	54 865
Trisodium phosphate	50 - 60 801 - 961
Urea, prill	34 - 42 545 - 673
Vermiculite ore	80 1281
Vermiculite, expanded	17 272
Walnut meats	25 400
Walnut shells, ground	40 - 45 641 - 721
Water	62 993
Wax	15 - 20 240 - 320
Wheat bran	12 192
Wheat gluten	30 - 35 481 - 561
Wheat, craked	35 - 45 561 - 721
	7 - 10



Material	Density (lb/ft³) (kg/m³)
Wheat, whole kernel	45 - 55 721 - 881
Whey powder	35 - 46 561 - 737
Woodchips	20 - 30 320 - 481
Wood flour	15 - 25 240 - 400
Wood shavings	3 - 10 48.1 - 160
Xanthum gum	48 769
Zinc ore	125 2002
Zinc oxide	10 - 30 160 - 481
Zinc, calcined, crushed	70 - 90 1121 - 1442

- 1 lb/ft³ = 27 lb/yd³ = $0.009259 \text{ oz/in}^3 = 0.0005787 \text{ lb/in}^3 = 16.01845 \text{ kg/m}^3 = 0.01602 \text{ g/cm}^3 = 0.1605 \text{ lb/gal(UK)} = 0.1349 \text{ lb/gal(US liq)} = 2.5687 \text{ oz/gal(UK)} = 2.1389 \text{ oz/gal(US liq)} = 0.01205 \text{ ton(long)/yd}^3 = 0.0135 \text{ ton(short)/yd}^3$
- · Density, Specific Weight and Specific Gravity

Sponsored Links

Related Topics

- Material Properties Material properties of gases, fluids and solids densities, specific heats, viscosities and more.
- Densities Densities of solids, liquids and gases. Definitions and convertion calculators.

Related Documents

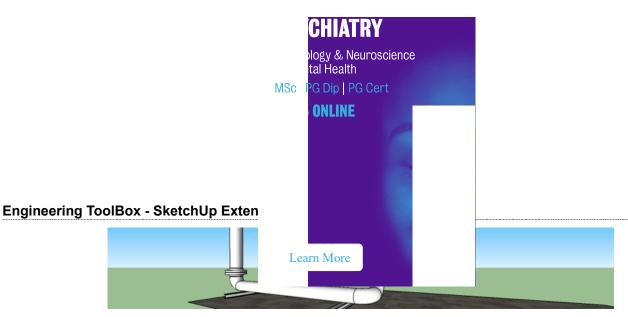
- Conveyors Maximum Inclination vs. Product Maximum conveyor inclination slopes for typical products.
- Density Converter Online density converter with commonly used units.
- Density vs. Specific Weight and Specific Gravity An introduction to density, specific weight and specific gravity.
- Food Products Bulk Densities Bulk densities of some common food products like grain, corn, barley, sugar and more.
- Gases Densities Densities and molecular weights of common gases like acetylene, air, methane, nitrogen, oxygen and others.
- Liquids Densities vs. Pressure and Temperature Change Densities and specific volume of liquids vs. pressure and temperature change.
- Slurry Density Calculate density of a slurry.
- Soil and Rock Bulk Factors Soil and rock expansion or swell after mining.
- Water Density, Specific Weight and Thermal Expansion Coefficients Definitions, online calculator and figures and tables with water properties like density, specific weight and thermal expansion coefficient of liquid water at temperatures ranging 0 to 360°C (32 to 680°F).
- Wood Densities of Various Species Densities of various wood species apple, ash, cedar, elm and more.

Sponsored Links





2ND IN The World



Add standard and customized parametric components - like flange beams, lumbers, piping, stairs and more - to your Sketchup model with the Engineering ToolBox - SketchUp Extension - enabled for use with the amazing, fun and free SketchUp Make and SketchUp Pro

Add the Engineering ToolBox extension to your SketchUp from the SketchUp Pro Sketchup Extension Warehouse!

Translate this Page to

Arabic - Chinese (Simplified) - Chinese (Traditional) - Dutch - French - German - Italian - Japanese - Korean - Portuguese - Russian - Spanish - - or select Your own language

About the ToolBox

We appreciate any comments and tips on how to make The Engineering ToolBox a better information source. Please contact us by email

• editor.engineeringtoolbox@gmail.com

if You find any faults, inaccuracies, or otherwise unacceptable information.

The content in The Engineering ToolBox is copyrighted but can be used with NO WARRANTY or LIABILITY . Important information should always be double checked with alternative sources. All applicable national and local regulations and practices concerning this aspects must be strictly followed and adhered to.

Privacy

We don't collect information from our users. Only emails and answers are saved in our archive. Cookies are only used in the browser to improve user experience.

Some of our calculators and applications let you save application data to your local computer. These applications will - due to browser restrictions - send data between your browser and our server. We don't save this data.

Google use cookies for serving our ads and handling visitor statistics. Please read Google Privacy & Terms for more information about how volt can control adserving and the information collected



If you want to promote your products or services in the Engineering ToolBox - please use Google Adwords. You can target the Engineering ToolBox by using AdWords Managed Placements.

Citation

This page can be cited as

Engineering ToolBox, (2010). Densities of common Products. [online] Available at: https://www.engineeringtoolbox.com/density-materials-d_1652.html [Accessed Day Mo. Year].

Modify access date.



Home

- Acoustics
- Air Psychrometrics
- Basics
- Combustion
- Drawing Tools
- Dynamics
- Economics
- Electrical
- Environment
- Fluid Mechanics
- Gases and Compressed Air
- HVAC Systems
- Hydraulics and Pneumatics
- Insulation
- Material Properties
- Mathematics
- Mechanics
- Miscellaneous
- Physiology
- Piping Systems
- Process Control
- Pumps
- Sanitary Drainage Systems
- Standard Organizations
- Statics
- Steam and Condensate
- Thermodynamics
- Water Systems



○ °C



Length

1.0

- m
- km
- \bigcirc in
- \bigcirc ft
- yards
- O miles
- O naut miles

Convert!

Area

1.0

- ⊙ m²
- km²
- \bigcirc in²
- \bigcirc ft²
- miles²
- $\bigcirc \ \mathit{acres}$

Convert!

Volume

1.0

- m³
- O liters
- \bigcirc in 3
- ft³
- O us gal

Convert!

Weight

1.0

- kg_f
- \circ N
- \bigcirc Ib_f

Convert!

Velocity

1.0

- m/s
- km/h
- O ft/min
- ft/s
- O mph
- O knots

Convert!



- Pa (N/m²)
- O bar
- mm H₂O
- O kg/cm²
- O psi
- inches H₂O

Convert!

Flow

1.0

- m³/s
- \bigcirc m^3/h
- US gpm
- \bigcirc cfm

Convert!

Scientific Online Calculator



9 1







Make Shortcut to Home Screen?

