

**Table C3-2** (Continued)

Material	Density (lb/ft <sup>3</sup> )	Material	Density (lb/ft <sup>3</sup> )
Terra cotta, architectural		Cypress, southern	34
Voids filled	120	Fir, Douglas, coast region	34
Voids unfilled	72	Hem fir	28
Tin	459	Oak, commercial reds and whites	47
Water		Pine, southern yellow	37
Fresh	62	Redwood	28
Sea	64	Spruce, red, white, and Sitka	29
Wood, seasoned		Western hemlock	32
Ash, commercial white	41	Zinc, rolled sheet	449
Aluminum	27	Silt, moist, loose	12.3
Bituminous products		Silt, moist, packed	15.1
Asphaltum	12.7	Silt, flowing	17.0
Graphite	21.2	Sand and gravel, dry, loose	15.7
Paraffin	8.8	Sand and gravel, dry, packed	17.3
Petroleum, crude	8.6	Sand and gravel, wet	18.9
Petroleum, refined	7.9	Earth (submerged)	
Petroleum, benzine	7.2	Clay	12.6
Petroleum, gasoline	6.6	Soil	11.0
Pitch	10.8	River mud	14.1
Tar	11.8	Sand or gravel	9.4
Brass	82.6	Sand or gravel and clay	10.2
Bronze	86.7	Glass	25.1
Cast-stone masonry (cement, stone, sand)	22.6	Gravel, dry	16.3
Cement, portland, loose	14.1	Gypsum, loose	11.0
Ceramic tile	23.6	Gypsum, wallboard	7.9
Charcoal	1.9	Ice	9.0
Cinder fill	9.0	Iron	
Cinders, dry, in bulk	7.1	Cast	70.7
Coal		Wrought	75.4
Anthracite, piled	8.2	Lead	111.5
Bituminous, piled	7.4	Lime	
Lignite, piled	7.4	Hydrated, compacted	5.0
Peat, dry, piled	3.6	Hydrated, loose	7.1
Concrete, plain		Masonry, ashlar stone	
Cinder	17.0	Granite	25.9
Expanded-slag aggregate	15.7	Limestone, crystalline	25.9
Haydite (burned-clay aggregate)	14.1	Limestone, oolitic	21.2
Slag	20.7	Marble	27.2
Stone (including gravel)	22.6	Sandstone	22.6
Vermiculite and perlite aggregate, nonload-bearing	3.9–7.9	Masonry, brick	
Other light aggregate, load-bearing	11.0–16.5	Hard (low absorption)	20.4
Concrete, reinforced		Medium (medium absorption)	18.1
Cinder	17.4	Soft (high absorption)	15.7
Slag	21.7	Masonry, concrete <sup>a</sup>	
Stone (including gravel)	23.6	Lightweight units	16.5
Copper	87.3	Medium weight units	19.6
Cork, compressed	2.2	Normal weight units	21.2
Earth (not submerged)		Masonry grout	22.0
Clay, dry	9.9	Masonry, rubble stone	
Clay, damp	17.3	Granite	24.0
Clay and gravel, dry	15.7	Limestone, crystalline	23.1
		Limestone, oolitic	21.7

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