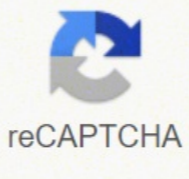




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# Conversion of kn/m3 to pcf pdf online tool

Definitions: Pound Per Cubic Foot (abbreviations: lb/ft<sup>3</sup>, or ppf3): is a unit of density, defined by mass in pound divided by volume in cubic foot Kilonewton Per Cubic Meter (abbreviations: kN/m<sup>3</sup>, or kNpm3): is an SI derived unit of density, defined by mass in kilonewton divided by volume in cubic meter How to Convert Pounds Per Cubic Feet to Kilonewton Per Cubic Meters Example: How many kilonewton per cubic meters are equivalent to 94.98 pounds per cubic feet? A useful interactive conversion tool, with many more units, is Engineering Exchange's online Unit Conversions program. Units, symbols and conversion values used in this density calculator gram per cubic centimeter kilogram per cubic centimeter ounce per gallon (Imperial) ounce per gallon (U.S. fluid) pound per gallon (Imperial) pound per gallon (U.S. fluid) ton per cubic yard (long) ton per cubic yard (short) References The National Institute of Standards and Technology (NIST), Centigrade change in degrees F (or R) (5/9)(DF) change in deg. In general, the Conversion Factors are listed to 6 significant digits (even though your answer should not be that extensive). Other Geometric Properties of a Cross-section Moment of Inertia, in<sup>4</sup> 416231 mm<sup>4</sup> = 10-12 m<sup>4</sup> 2.402 x 10-6 in<sup>4</sup> Section Modulus, in<sup>3</sup> 16387.064 mm<sup>3</sup> = 10-9 m<sup>3</sup> 61.0237 x 10-6 in<sup>3</sup> Excerpts/adaptions from: Aluminum Design Manual, Aluminum Association, Inc., October, 1994, Table A1-1, pg. - Top - Geometric Conversions - Force and Stress Conversions - Same System Conversions - - Pounds, Newtons & Kilograms; Density - Temperature - Convert among mass density values along with mass concentration values (mass divided by volume). Some useful approximate conversions: A pound is 4.45 newtons; a meter is 39.4 inches. - Top - Geometric Conversions - Force and Stress Conversions - Same System Conversions - - Pounds, Newtons & Kilograms; Density - Temperature - 4e. F. Multiply psi (or ksi) by -7 to convert to kPa (or MPa) 4a. (i) 90.54 lb/ft<sup>3</sup> (ii) 30.66 lb/ft<sup>3</sup> (iii) 55.94 lb/ft<sup>3</sup> Convert Pound Per Cubic Foot to More Density Units The S.I. and English Systems The System International (International Standard System) of units uses units of Newtons (N) and meters (m) for its units of force and length. 50 lb/ft<sup>3</sup> = 16.018463 [ (kg/m<sup>3</sup>) / (lb/ft<sup>3</sup>) ] = 800.92315 kg/m<sup>3</sup> To convert from kg/m<sup>3</sup> into units in the left column divide by the value in the right column or, multiply by the reciprocal, 1/x. To understand how to also convert the units follow this example. Wikipedia, The Free Encyclopedia, last visited 26 Jun. Force, Stress, Loads and Mass - English Units to S.I. Units and Back To Convert From multiply by to get / To Convert from multiply by to get Force pound, lb 4.44822 newton, N 0.224809 lb kilopound, kip = 1000 lb 4.44822 kilonewton, kN = 1000 N 0.224809 kip = 1000 lb Stress [Force per Unit Area] pounds per sq. "Conversion of units" Wikipedia, The Free Encyclopedia. inch, psi 6894.76 Pa 0.000145038 psi psi 6.89476 kPa 0.145038 psi kilopounds per sq. You want to convert the foot to inches. Since you can multiply anything by 1 and still retain the original value, but in different units, set it up so that ft<sup>3</sup> will cancel out leaving you with in<sup>3</sup>. So, to convert directly from lb/ft<sup>3</sup> to g/mL you multiply by 0.016018463. ft, ksf 47.8803 kPa 0.0208854 ksf pounds per sq. Another tool, by Joshua Madison, may be downloaded here (no length conversions; remember, pressure has the same units as stress). As you type your value, the answer will be automatically calculated and displayed in the text box under title [ To: ]. Underlined values units represent an "exact" conversion factor. 800.92315 kg/m<sup>3</sup> / 16.018463 [ (kg/m<sup>3</sup>) / (lb/ft<sup>3</sup>) ] = 50 lb/ft<sup>3</sup> To convert among any units in the left column, say from A to B, you can multiply by the factor for A to convert A into kg/m<sup>3</sup> then divide by the factor for B to convert out of kg/m<sup>3</sup>. Below are various tables that convert units from English to S.I. and back (e.g., 1 meter = 39.4 inches), as well as common conversions within each system (e.g., 1 ft = 12 inches). Appendix 1-4. The English System (imperial, engineering) uses pounds (lb, force) and feet (ft) or inches (in). As; 1 pounds per cubic feet = 0.15708657306188 kilonewton per cubic meters 94.98 pounds per cubic feet = Y kilonewton per cubic meters Assuming Y is the answer, and by criss-cross principle; Y equals 94.98 times 0.15708657306188 over 1 (i.e.) Y = 94.98 \* 0.15708657306188 / 1 = 14.920082709417 kilonewton per cubic meters Answer is: 14.920082709417 kilonewton per cubic meters are equivalent to 94.98 pounds per cubic feet, ft, lb/ft<sup>2</sup>, psf 47.8803 pascals, Pa = N/m<sup>2</sup> 0.0208854 lb/ft<sup>2</sup>, psf psi 0.0478803 kilopascal, kPa, kN/m<sup>2</sup> 20.8854 psf kilopounds per sq, 3.78541 Liters, l = 0.001 m<sup>3</sup> 0.264172 gallon, gal. Force and Weight; and Density - English Units to S.I. Units and Back In the S.I. system, weight is often expressed in kilograms (a mass); in the United States, weight is expressed in pounds (a force). 2011. Temperature Conversions To Convert From function to get / To Convert from function to get degrees Fahrenheit, F (5/9)(F-32) degrees Centigrade C l.B C + 32 degrees Fahrenheit, F deg. - Top - Geometric Conversions - Force and Stress Conversions - Same System Conversions - - Pounds, Newtons & Kilograms; Density - Temperature - 4b. For example, to convert from lb/ft<sup>3</sup> to g/mL you would multiply by 16.018463 then divide by 1000. Practice Question: Convert the following units into kn/m<sup>3</sup>. N.B.: After working out the answer to each of the next questions, click adjacent button to see the correct answer. So, the conversion factor to multiply by to convert from lb/in<sup>3</sup> to lb/ft<sup>3</sup> is 1728. The NIST Guide for the use of the International System of Units - Appendix B, subsections B.8 Factors for Units Listed Alphabetically and B.9 Factors for Units Listed by Kind of Quantity or Field of Science. Lide, David R., Daniel (Editor-in-Chief). Dividing both sides of the equation by 5.787037e-04 we get 1728 lb/ft<sup>3</sup> = 1 lb/in<sup>3</sup>. in, ksi 6.89476 megapascal, MPa = MN/m<sup>2</sup> = N/mm<sup>2</sup> 0.145038 ksi Bending Moment, Torque [Force x Length] pound-foot, lb-ft 1.35582 newton-meter, N-m 0.737561 lb-ft pound-inch, lb-in 0.112985 N-m 8.850732 lb-in Distributed (or "Running") Load [Force per Unit Length] pounds per (linear) foot, plf 14.5939 newtons per meter, N/m 0.06852178 plf pounds per (linear) inch, pli 175.127 N/m 0.00571015 pli Excerpts/adapted from: Aluminum Design Manual, Aluminum Association, Inc., October, 1994, Table A1-2, pg. F F+459.67 degrees Rankine, R R-459.67 deg. Or, multiply by 16.018463/1000 = 0.016018463. Say you want to convert from lb/ft<sup>3</sup> to lb/in<sup>3</sup>. In next fields, kindly type your value in the text box under title [ From: ] to convert from pound per cubic foot to kilonewton per cubic meter (lb/ft<sup>3</sup> to kn/m<sup>3</sup>). Knowing that 1 lb/ft<sup>3</sup> = 5.787037e-04 lb/in<sup>3</sup> we can now find the conversion factor for converting back. Lengths, Areas and Volumes - English Units to S.I. Units and Back To Convert From multiply by to get / To Convert from multiply by to get Length inches, in 25.4 millimeters, mm 0.0393701 inches, in inches, in 0.0254 meters, m 39.3701 inches, in feet, ft 0.3048 meters, m 3.280840 feet, ft yards, yd 0.9144 meters, m 1.09361 yards, yd miles, mi 1.609344 kilometers, km 0.621371 miles, mi Area square inch, in<sup>2</sup>, si 645.16 square millimeters, mm<sup>2</sup> 0.00155000 square inch, in<sup>2</sup> square inch, in<sup>2</sup>, si 0.00064516 square meter, m<sup>2</sup> 1550.00 square inch, in<sup>2</sup> square feet, ft<sup>2</sup>, si 0.09290304 square meter, m<sup>2</sup> 10.7639 square feet, ft<sup>2</sup>, sf square yard, yd<sup>2</sup>, sy 0.836127 square meter, m<sup>2</sup> 1.19599 square yard, yd<sup>2</sup> Volume cubic inch, in<sup>3</sup>, ci 16387.064 cubic millimeters, mm<sup>3</sup> 61.0237 x 10-6 cubic inch, in<sup>3</sup> cubic inch, in<sup>3</sup>, ci 16.387064 cubic centimeters, cc, cm<sup>3</sup> 0.06102374 cubic inch, in<sup>3</sup> cubic foot, ft<sup>3</sup>, cf 0.0283168 cubic meters, m<sup>3</sup> 35.3147 cubic foot, ft<sup>3</sup>, cf cubic yard, yd<sup>3</sup>, cy 0.764555 cubic meters, m<sup>3</sup> 1.30795 cubic yard, yd<sup>3</sup> gallon, gal. is 9.81 N (in standard gravity). C (or K) 1.8(DC) change in deg. CRC Handbook of Chemistry and Physics, 89th Edition New York, NY: CRC Press, p. By knowing the conversion factor, converting between units can become a simple multiplication problem: S \* C = E Where S is our starting value, C is our conversion factor, and E is our end converted result. Wikipedia contributors. To simply convert from any unit into kg/m<sup>3</sup>, for example, from 50 lb/ft<sup>3</sup>, just multiply by the value in the right column in the table below. F deg. The unit of time, seconds (sec) is the same in both systems. Centigrade C+273.15 Kelvin, K K-273.15 deg. To Convert From Multiply by to get / To Convert from multiply by to get Pounds, Newtons and Kilograms pounds lb 4.44822 Newton, N 0.224809 lb lb 0.453592 kg 2.20462 lb N 0.101972 kg 9.80665 N lb 0.0310 slug (lb-s/ft) 32.2 lb Weight Density (force/volume); including kilogram force lb / ft<sup>3</sup> 0.157087 kilonewtons per kN/m<sup>3</sup> 6.36590 lb / ft<sup>3</sup> lb / in<sup>3</sup> 271.447 kN/m<sup>3</sup> 0.00368 lb / in<sup>3</sup> lb / in<sup>3</sup> 0.000578703 lb / ft<sup>3</sup> 1728 lb / in<sup>3</sup> N / m<sup>3</sup> 0.101972 kg / m<sup>3</sup> 9.80665 N / m<sup>3</sup> kN / m<sup>3</sup> 101.972 kg / m<sup>3</sup> 0.0090665 kN / m<sup>3</sup> lb / ft<sup>3</sup> 16.0185 kg / m<sup>3</sup> 0.0624279 lb / ft<sup>3</sup> Mass Density (mass/volume) slug / ft<sup>3</sup> 515.379 kg / m<sup>3</sup> 0.0019403 slug / ft<sup>3</sup> - Top - Geometric Conversions - Force and Stress Conversions - Same System Conversions - - Pounds, Newtons & Kilograms; Density - Temperature - 4e. Ounces and pounds are in the avoirdupois system, the standard everyday system in the United States where 1 ounce = 1/16 pound How to Convert Units of Density Conversions are performed by using a conversion factor. Be carefull The force of 1 kg. 1-28, 2008. Same System Conversions; Things you should know From Multiply by to get / To Convert from multiply by to get Length in 0.083333 feet, ft 12 in ft 0.333333 yards, yd 3 ft ft 1.89393 x10-4 miles, mi 5280 feet, ft mm 0.001 meters, m 1000 mm cm 0.01 m 100 cm Area in<sup>2</sup> 0.00694444 ft<sup>2</sup> 144 in<sup>2</sup> ft<sup>2</sup> 0.111111 yd<sup>2</sup> 9 ft<sup>2</sup> Time second, s 0.0166666 minutes, min 60 s second 2.77777 x10-4 hour, h 3600 s second 1.1574 x 10-5 day, d 86400 s minutes, min 6.9444 x10-4 day,d 1440 min Weight lb 0.005 ton (U.S.) 2000 lb - Top - Geometric Conversions - Force and Stress Conversions - Same System Conversions - - Pounds, Newtons & Kilograms; Density - Temperature - 4d. Or, you can find the single factor you need by dividing the A factor by the B factor. Since: 1 ft = 12 in, 1 ft / 12 in = 1 We can write the conversion as: 1 lb/ft<sup>3</sup> = 1 lb/ft<sup>3</sup> \* (1 ft / 12 in)<sup>3</sup> = 1 lb/ft<sup>3</sup> \* (1 ft<sup>3</sup> / 1728 in<sup>3</sup>) = 5.787037e-04 lb/in<sup>3</sup> And we now have our factor for conversion from lb/ft<sup>3</sup> to lb/in<sup>3</sup> since 1 \* 5.787037e-04 = 5.787037e-04.

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