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Error: We couldn't find a conversion between kgf/cm²/to/kg/cm²/from/kgf/cm² and picobar Having trouble with a unit conversion? Try doing a search, or posting to the forum. You may also be looking for a date difference or molecular weight. You can also contact us directly if you find any missing units or errors. Want other units? ConvertUnits.com provides an online conversion calculator for all types of measurement units. You can find metric conversion tables for SI units, as well as English units, currency, and other data. Type in unit symbols, abbreviations, or full names for units of length, area, mass, pressure, and other types. Examples include mm, inch, 70 kg, 150 lbs, US fluid ounce, 6'3", 0 stone 4, cubic cm, metres squared, grams, moles, feet per second, and many more! Terrass604, It's the same reason why there are Pounds force (lbF) and Pounds mass (lbm). Both known as Pounds. The pound mass designation is strictly a weight. In pressure gages the designation is PSI. (pounds per sq. in); if one wanted to be super accurate, the designation would be, PFSI (pounds force per sq. in). Hope this helps. saxon 1 Kgf is the weight of an object that has a mass of 1Kg and is accelerated at 9.8 m/s² (acceleration of gravity at 45 deg of latitude and sea level). Strictly speaking, a pressure transmister should be calibrated in "Kgf/cm²", not in "Kg/cm²". Pressure should always be expressed as force applied per unit area. People use Kgf and Kg indistinctly, but the former is a measure of force -or weight- whereas the latter is a measure of mass. Note that force and mass are not the same thing. When people use "Kg/cm²" (instead of Kgf/cm²) they are just probably being lazy and dropping the "F"; they most probably mean Kgf/cm² in the first place. Thanks, and that clears that up for me and will relay this on to our quotations group as well. To avoid confusions and reach an international consensus the trend now is to use N/m² = Pa. 1 bar = 100 000 Pa = 100 kPa 1 torr = 1 mm Hg = 133.32 Pa 1 psi = 6894.8 Pa 1 atm = 101.325 kPa 1 in Hg = 3386.6 Pa 25362, The pascal-newton/meter unit system has always been a curve ball to me. Have a better one. saxon saxon, what is your preferred nomenclature? Why use metric if your going to confuse and abuse it with units like kgf? Sounds like a case of English system envy. Maybe we can come up with a metric slug :-D kgf/cm² (the so called kilopond) units predate the gram is a unit of mass not a unit of force. Other international projects use kPa but we use kg/cm² on my project. The British engineers substitute Bar for kg/cm². Consider proposing Bar instead of kg/cm². John Gentlemen, The fact is that the metric system has a separate unit for force, called the Newton (kg.m/s²) while the, apparently revered, English system does not; so a unit of force in the English system is called a pound force (lbf) and is equivalent to lbf.ft/s². Simply to differentiate the two pounds. There is an lbf and an lbm, while only 1 Kg. In the Metric system, if you want to talk force, you use Newton - no confusion. alomaritrg. Oh would that it be so. If Newton's (and their companion Pascals) were universal, then we wouldn't be having this thread. I firmly believe that "kgf" is just a stupid as "slug" and I wish that instrument manufacturers would not accept orders for instruments calibrated in this abortion of a unit - except that instrument makers are not cops, and if one of us engineers ask for it and the first maker says "no" then the next will say "yes" and the first maker will have lost a sale and possibly a customer. Engineers have to stop asking for stupid things before manufacturer's will stop making the stupid things. David Simpson, PE MuleShoe Engineering In US, NIST have 2 very useful publications for unit conversion and definition. #1 SP330 & SP811. You could download from NIST website. In UK, NPL also have paper to describe the relationship between kg and kgf. kgf and slugs are no more stupid than shoes on mules or something to that effect. the standard measure of weight and force was a platinum mass in a day when gravity was thought to be a constant, having no really precise way to measure force, as a result the kgf and a related lbf, pounds, and slugs became common place. just remember both cm mm as metric units do not comply with SI either. it is a matter of dogma or engineering, but at the end of the day it has to fit and work cm is not an SI unit but mm is most definitely an SI unit. Correlations you have at Foundation Analysis and Design 5th edition Bowles Mc Graw Hill To just a guess suffices a general assessment of the bearing capacity of the soils Soil allowable foundation compression at service level very bad under 0.5 kgf/cm² bad 0.5 to 1 kgf/cm² moderate strength 1 to 2 kgf/cm² sound soil 2 to 3 kgf/cm² very hard soil 3 to 5 kgf/cm² Normally one uses special measures for bad soils. If capacity is enough one knows to use about 1.5 kgf/cm² is reasonable and if the soil is definitely good 2.5 kgf/cm² shouldn't give any problem on bearing capacity. Total and differential settlements need be additionally considered. Check your state building code. They usually give presumptive bearing pressures that you can use for fairly straight forward work or preliminary design with out geotech investigation. The ultimate bearing capacity is given by the equation: $q_{ult} = N * B * (1 + D/B) / 10$. Where B is the B is the width of the foundation and N is the N60 value of the soil averaged over a depth of B to 1.5B of the foundation. D is the embedment depth. The ultimate bearing capacity is given in terms of tsf and the D and B in ft. I hope that helps, Dimitris ***** Dimitris P. Zeccos Graduate Student Geotechnical Engineering Department of Civil and Environmental Engineering University of California, Berkeley Moderator "Geotechnical Engineer" Group Webmaster of "Geotechnical Engineer" Website ***** I know I am several months behind on this one. To get a general assessment of the soil you conduct a DCP test. Humboldt sells the DCP equipment. You can contact them about obtaining a copy of ASTM STP 399 (I think that is the number). It outlines the correlation of DCP testing to blow count (N) and then to bearing capacity. Try searching the USACE site also. There are several manuals on 'Bearing Capacity of Soils'. I cannot recall the exact address, but I believe that to be the title. It provides a rather in depth discussion on the blow count and associated bearing capacity. For USACE - got to type in "US Army Engineering" and look for third reference - this is a listing of the manuals. Follow the path and you can download any or all of the US Army civil engineering manuals. The pressure value 1 kgf/cm² (kg per sq. cm) in words is "one kgf/cm² (kg per sq. cm)". This is simple to use online converter of weights and measures. Simply select the input unit, enter the value and click "Convert" button/cm². The value will be converted to all other units of the actual measure. You can simply convert for example between metric, UK imperial and US customary units system. How many kgf/cm² in 1 kg/cm²? The answer is 1. We assume you are converting between kilogram-force/square centimetre and kilogram/square centimetre. You can view more details on each measurement unit: kgf/cm² or kg/cm² The SI derived unit for pressure is the pascal. 1 pascal is equal to 1.0197162129779E-5 kgf/cm², or 1.0197162129779E-5 kg/cm². Note that rounding errors may occur, so always check the results. Use this page to learn how to convert between kilograms-force/square centimetre and kilogram/square centimetre. Type in your own numbers in the form to convert the units! 1 kgf/cm² to kg/cm² = 1 kg/cm² 5 kgf/cm² to kg/cm² = 5 kg/cm² 10 kgf/cm² to kg/cm² = 10 kg/cm² 20 kgf/cm² to kg/cm² = 20 kg/cm² 30 kgf/cm² to kg/cm² = 30 kg/cm² 40 kgf/cm² to kg/cm² = 40 kg/cm² 50 kgf/cm² to kg/cm² = 50 kg/cm² 75 kgf/cm² to kg/cm² = 75 kg/cm² 100 kgf/cm² to kg/cm² = 100 kg/cm² You can do the reverse unit conversion from kg/cm² to kgf/cm², or enter any two units below: ConvertUnits.com provides an online conversion calculator for all types of measurement units. 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