

Continue

































Kg/cm² or kgf/cm² is kilogram-force per square centimeter, a unit to measure pressure. On a surface area of one square centimeter, it is the force exerted per unit area in kilograms. PSI is pressure in pounds per square inch, referring to gas or liquid. The kg/cm² to psi converter is an easy-to-use and straightforward tool that helps you convert between significant pressure units. It allows you to enter pressure measurements in your unit of choosing and will give you the conversion instantly. Let's take a look at the steps to use the converter. Input the amount of pressure in kg/cm², kilogram-force per square centimeter. The result is the pressure value in pounds per square inch, psi. One more thing: you can use it the other way around. You can also choose any unit of pressure to convert from the given unit list. How many kgf/cm2 in 1 psi? The answer is 0.070306957829636. We assume you are converting between kilogram/square centimetre and pound/square inch. You can view more details on each measurement unit: kg/cm2 or psi The SI derived unit for pressure is the pascal. 1 pascal is equal to 1.0197162129779E-5 kg/cm2, or 0.00014503773800722 psi. Note that rounding errors may occur, so always check the results. Use this page to learn how to convert between kilograms/square centimetre and pounds/square inch. Type in your own numbers in the form to convert the units! 1 kg/cm2 to psi = 14.22334 psi 2 kg/cm2 to psi = 28.44669 psi 3 kg/cm2 to psi = 42.67003 psi 4 kg/cm2 to psi = 56.89337 psi 5 kg/cm2 to psi = 71.11672 psi 6 kg/cm2 to psi = 85.34006 psi 7 kg/cm2 to psi = 99.5634 psi 8 kg/cm2 to psi = 113.78675 psi 9 kg/cm2 to psi = 128.01009 psi 10 kg/cm2 to psi = 142.23343 psi You can do the reverse unit conversion from psi to kg/cm2, or enter any two units below: The pound per square inch or, more accurately, pound-force per square inch (symbol: psi or lbf/in² or lbf/in²) is a unit of pressure or of stress based on avoirdupois units. It is the pressure resulting from a force of one pound-force applied to an area of one square inch. Metric conversions and more 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", 10 stone 4, cubic cm, metres squared, grams, moles, feet per second, and many more! This calculator allows you to convert from Kilogram-force/sq. cm to Psi and in a reverse direction. To convert from Kilogram-force/sq. cm to Psi, enter the amount of Kilogram-force/sq. cm into the first input and to convert from Psi to Kilogram-force/sq. cm, enter the amount of Psi into the second input. (Last Updated On: 2025-03-15) Discover the ease of converting kgf/cm² to psi with Newton's intuitive Kilogram-force sq. Cm to Psi Converter. This tool ensures precise pressure unit conversions, sparking your curiosity to learn more. What are Kilogram-force per square centimeter and Psi Definition of Kilogram-force per square centimeter Kilogram-force per square centimeter (kgf/cm²) is a unit of pressure defined as the force of one kilogram exerted on an area of one square centimeter. This metric unit, part of the technical gravitational system, is commonly used in engineering and physics to measure pressure or mechanical stress. In practical terms, it measures how much force is applied over a specific area and is essential for understanding material strength and load capacity. Definition of Psi Pounds per square inch (psi) is a unit of pressure commonly used in the United States and other countries still on the imperial system. It quantifies the amount of force applied over one square inch of an area. One psi is equivalent to the pressure exerted by a one-pound force applied to an area of one square inch. This unit is widely used in various industries such as automotive, aviation, and mechanical engineering to describe the pressure levels of gases and liquids in different settings. Kilogram-force/cm² (kgf/cm²) Pounds per square inch (psi) 1 14.2233 2 28.4467 3 42.6700 4 56.8933 5 71.1167 6 85.3400 7 99.5633 8 113.7867 9 128.0100 10 142.2333 1 kgf/cm² = 14.2233 psi 1 psi = 0.07031 kgf/cm² Example 1: Convert 2 kgf/cm² to psi: 2 kgf/cm² = 2 × 14.2233 psi = 28.4466 psi Example 2: Convert 5 kgf/cm² to psi: 5 kgf/cm² = 5 × 14.2233 psi = 71.1165 psi History of Kilogram-force per square centimeter and Psi A brief history of the Kilogram-force sq. Cm to Psi Converter traces back to the need for a reliable method to convert between metric and imperial pressure units. As global industry and engineering expanded, the necessity for standardized tools that could accurately translate these measurements became critical. This converter is a result of such advancements and continues to serve as an indispensable tool for professionals worldwide. How to use Kilogram-force per square centimeter to Psi Converter Access the Kilogram-force sq. Cm to Psi Converter tool. Enter the pressure value in kgf/cm² into the designated input field. Click the 'Convert' button to initiate the conversion. Review the converted pressure in psi displayed on the screen. If necessary, use the tool to convert psi back to kgf/cm² by entering the psi value and clicking the convert button again. Real Life Applications of Kilogram-force per square centimeter to Psi Explore the practicality of the Kilogram-force sq. Cm to Psi Converter and its role in real-world applications. Engineering fields utilize this converter for stress and pressure analysis in structural designs. Automotive industry professionals rely on it for tire pressure adjustments and monitoring. It's essential for the calibration of pressure measuring devices in various scientific and industrial laboratories. Common Kilogram-force sq. Cm to Psi Converter Conversion Errors to AvoidIncorrect Units: Ensure you input values in kilogram-force per square centimeter, not other units.Rounding Mistakes: Double-check calculations to prevent rounding errors that may impact accuracy.Neglecting Decimal Points: Pay attention to decimal points to maintain precision in your conversions.Ignoring Temperature Effects: Remember that temperature can slightly affect pressure readings; account for this if necessary.Overlooking Updates: Keep your conversion tool updated to avoid discrepancies caused by outdated algorithms. Solved Examples kgf/cm² to psi Example 1: To convert 3 kgf/cm² to psi, the calculation would be 3 kgf/cm² × 14.2233 = 42.6699 psi. Example 2: Converting 7.5 kgf/cm² to psi is done by multiplying 7.5 kgf/cm² × 14.2233, resulting in 106.6747 psi. Frequently Asked Questions about the Kilogram-force sq. Cm to Psi Converter 1. What is the purpose of a kgf/cm² to psi converter? A: It is used to convert pressure values between the metric unit kgf/cm² and the imperial unit psi. 2. Is this converter accurate for all types of pressure calculations? A: Yes, the converter provides precise conversions suitable for various applications. 3. Can I convert psi back to kgf/cm² using this tool? A: Absolutely, the tool also allows for the reverse conversion from psi to kgf/cm². 1 kgf/cm2 equals 14.2233 pounds per square inch Kgf/cm2 To Psi Converter = Help our site grow by sharing it! To calculate a kilogram-force per square centimeter value to the corresponding value in psi, just multiply the quantity in kgf/cm2 by 14.223343334285 (the conversion factor). Here is the formula: Value in pounds per square inch = value in kgf/cm2 × 14.223343334285 Suppose you want to convert 1 kgf/cm2 into pounds per square inch. Using the conversion formula above, you will get: Value in psi = 1 × 14.223343334285 = 14.2233 pounds per square inch This converter can help you to get answers to questions like: How many kilograms-force per square centimeter are in 1 pounds per square inch? 1 kilograms-force per square centimeter is equal to how many pounds per square inch? How much is 1 kgf/cm2 in pounds per square inch? What is the conversion factor to convert from kilograms-force per square centimeter to pounds per square inch? What is the formula to convert from kilograms-force per square centimeter to pounds per square inch? Among others. Conversion Table: Kilograms-force per square centimeter to Pounds per square inchKilograms-force per square centimeter=Pounds per square inch0.1 kgf/cm2=1.42 psi1/5 kgf/cm2=2.84 pounds per square inch0.3 kgf/cm2=4.27 pounds per square inch0.4 kgf/cm2=5.69 pounds per square inch1/2 kgf/cm2=7.11 pounds per square inchConversions 5 completed0.6 kgf/cm2=8.53 pounds per square inch0.7 kgf/cm2=9.96 pounds per square inch0.8 kgf/cm2=11.38 pounds per square inch0.9 kgf/cm2=12.80 pounds per square inch1 kgf/cm2=14.22 pounds per square inchConversions 10 completed1.1 kgf/cm2=15.65 pounds per square inch1 1/5 kgf/cm2=17.07 pounds per square inch1.3 kgf/cm2=18.49 pounds per square inch1.4 kgf/cm2=19.91 pounds per square inch1 1/2 kgf/cm2=21.34 pounds per square inchConversions 15 completed1.6 kgf/cm2=22.76 pounds per square inch1.7 kgf/cm2=24.18 pounds per square inch1.8 kgf/cm2=25.60 pounds per square inch1.9 kgf/cm2=27.02 pounds per square inch2 kilograms-force per square centimeter=28.45 pounds per square inchNote: values are rounded to 2 decimal places for clarity. Sample Pressure Conversions While every effort is made to ensure the accuracy of the information provided on this website, neither this website nor its authors are responsible for any errors or omissions. Therefore, the contents of this site are not suitable for any use involving risk to health, finances or property. To achieve the desired result as quickly as possible, it is best to enter the value to be converted as text, for example '5 ksc to psi' or '67 ksc into psi' or simply '30 ksc'. In most cases, the word 'to' (or '-'/'->') can be omitted between the names of the two units, for example '55 ksc psi' instead of '92 ksc to psi'. Use the full power of this unit converter to convert ksc to psi With this calculator, it is possible to enter the value to be converted together with the original measurement unit, for example, '962 Kilogram-force per square centimeter'. In so doing, either the full name of the unit or its abbreviation can be usedas an example, either 'Kilogram-force per square centimeter' or 'ksc'. Then, the calculator determines the category of the measurement unit of measure that is to be converted, in this case 'Pressure'. After that, it converts the entered value into all of the appropriate units known to it. In the resulting list, you will be sure also to find the conversion you originally sought. Alternatively, the value to be converted can be entered as follows: '26 ksc to psi' or '40 ksc into psi' or '88 Kilogram-force per square centimeter -> Pound per square inch' or '51 ksc = psi' or '14 Kilogram-force per square centimeter to psi' or '76 ksc to Pound per square inch' or '2 Kilogram-force per square centimeter into Pound per square inch'. For this alternative, the calculator also figures out immediately into which unit the original value is specifically to be converted. Regardless which of these possibilities one uses, it saves one the cumbersome search for the appropriate listing in long selection lists with myriad categories and countless supported units. All of that is taken over for us by the calculator and it gets the job done in a fraction of a second. Comma (,) and dot (.) are treated as decimal separators. Kilogram per Square Centimeter (kgf/cm²) is a unit of pressure commonly used in countries following the metric system. It represents the force of one kilogram-force applied to one square centimeter. What is Pound Per Square Inch (psi) Pound Per Square Inch (psi) is a unit of pressure commonly used in the United States and other countries using the imperial system. It represents the force of one pound-force applied to one square inch. Conversion Formulas The conversion formulas between kgf/cm² and psi are as follows: To convert from kgf/cm² to psi: psi=kgf/cm²×14.22334 To convert from psi to kgf/cm²: kgf/cm²=psi×0.07030696 Examples Converting 15 kgf/cm² to psi: psi=15×14.22334=213.3501 Converting 6 psi to kgf/cm²: kgf/cm²=6×0.07030696=0.4218417 This page can be used as a reference to easily perform conversions between Kilogram per Square Centimeter (kgf/cm²) and Pound Per Square Inch (psi). Kilogram per Square Centimeter to Pound Per Square Inch conversion table kgf/cm² to psi conversion table How many kilogram-force per square meter in 1 psi? The answer is 703.06957829636. We assume you are converting between kilogram-force/square metre and pound/square inch. You can view more details on each measurement unit: kilogram-force per square meter or psi The SI derived unit for pressure is the pascal. 1 pascal is equal to 0.10197162129779 kilogram-force per square meter, or 0.00014503773800722 psi. Note that rounding errors may occur, so always check the results. Use this page to learn how to convert between kilograms-force/square meter and pounds/square inch. Type in your own numbers in the form to convert the units! 1 kilogram-force per square meter to psi = 0.00142 psi 10 kilogram-force per square meter to psi = 0.01422 psi 50 kilogram-force per square meter to psi = 0.07112 psi 100 kilogram-force per square meter to psi = 0.14223 psi 200 kilogram-force per square meter to psi = 0.28447 psi 500 kilogram-force per square meter to psi = 0.71117 psi 1000 kilogram-force per square meter to psi = 1.42233 psi You can do the reverse unit conversion from psi to kilogram-force per square meter, or enter any two units below: The pound per square inch or, more accurately, pound-force per square inch (symbol: psi or lbf/in² or lbf/in²) is a unit of pressure or of stress based on avoirdupois units. It is the pressure resulting from a force of one pound-force applied to an area of one square inch. Metric conversions and more 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", 10 stone 4, cubic cm, metres squared, grams, moles, feet per second, and many more! kg/cm² to Psi - Pressure - Conversion Kilogram-force/Square Centimeter : A kilogram-force per square centimeter (kgf/cm2), often just kilogram per square centimeter (kg/cm2), or kilopond per square centimeter is a pressure unit that has been largely displaced the SI unit system of pascal units. Same with psi (abbreviation of pound per square inch), kg/cm2 is part of a group of pressure units that relate pressure with weight. 1 kg/cm2 equals 98.066 5 Pascals. Psi : Psi is the abbreviation of pound per square inch, and is widely used in British and American. 1 psi = 6,894.76 Pascals. Pressure Conversion Calculator Result : 1 Kilogram-force/Square Centimeter = 14.22334 Psi FAQ about kg/cm² to Psi Conversion 1 kilogram-force/square centimeter (kgf/cm²) is equal to 14.22334 psi (Psi).1kg/cm² = 14.22334PsiThe pressure p in psi (Psi) is equal to the pressure p in kilogram-force/square centimeter (kg/cm²) times 14.22334, that conversion formula:p(Psi) = p(kg/cm²) × 14.22334 One Kilogram-force/Square Centimeter is equal to 14.22334 Psi.1kg/cm² = 1kg/cm² × 14.22334 = 14.22334Psi One Psi is equal to 0.07031 Kilogram-force/Square Centimeter:1Psi = 1Psi × 0.07031 = 0.07031kg/cm² p(Psi) = 5(kg/cm²) × 14.22334 = 71.1167Psi Most popular conversion pairs of pressure