

CONVERSION FACTORS

lbf	Pounds force	pli	Pounds per inch	g/cc	Grams per cubic centimeter
pcf	Pounds per cubic foot	psi	Pounds per square inch	kg/m ³	Kilogram per cubic meter
lb/ft ³	Pounds per cubic foot	Kip/in ²	Kilopounds per square inch	N/ cm ²	Newton per centimeter squared
ppi	Pounds per inch	kg/cm ²	Kilogram per square centimeter	MPa	Mega pascals
lb./in.	Pounds per inch	g/cm ²	Grams per square centimeter	kPa	Kilo pascals

To Convert:

1	Kip/ in² into lbf/in² lbf/in² into Kip/ in²		$\text{___ Kip/ in}^2 \times 1000 = \text{___ lbf/in}^2$ $\text{___ lbf/in}^2 \div 1000 = \text{___ Kip/ in}^2$
2	Kg/m² into psi psi into Kg/m²	Compression deflection	$\text{___ kg/m}^2 \times .001419 = \text{___ psi}$ $\text{___ psi} \div .001419 = \text{___ kg/m}^2$
3	MPa into psi Psi into MPa	Compression deflection	$\text{___ Mpa} \div .006895 = \text{___ psi}$ $\text{___ psi} \times .006895 = \text{___ Mpa}$ or $\text{___ Mpa} \times 145 = \text{___ psi}$ $\text{___ psi} \div 145 = \text{___ Mpa}$
4	g/m² into psi psi into g/m²	Compression deflection	$\text{___ g/m}^2 \times 1.42 \times 10^{-6} = \text{___ psi}$ $\text{___ psi} \div 1.42 \times 10^{-6} = \text{___ g/m}^2$
5	kg/cm² into psi psi into kg/cm²	Compression deflection & Tensile	$\text{___ kg/cm}^2 \times 14.128 = \text{___ psi}$ $\text{___ psi} \div 14.128 = \text{___ kg/cm}^2$
6	N/cm² into psi psi into N/cm²	Compression deflection	$\text{___ N/cm}^2 \div 0.6894 = \text{___ psi}$ $\text{___ psi} \times 0.6894 = \text{___ N/cm}^2$
7	g/cm² into psi psi into g/cm²	Compression deflection	$\text{___ g/cm}^2 \times 0.01413 = \text{___ psi}$ $\text{___ psi} \div 0.01413 = \text{___ g/cm}^2$
8	Kpa into psi psi into Kpa	Compression deflection & Tensile	$\text{___ Kpa} \div 6.895 = \text{___ psi}$ $\text{___ psi} \times 6.895 = \text{___ Kpa}$
9	kg/m³ into lb/ft³ lb/ft³ into kg/m³	Density	$\text{___ kg/m}^3 \times 0.06242 = \text{___ lb/ft}^3$ $\text{___ lb/ft}^3 \div 0.06242 = \text{___ kg/m}^3$
10	g/cc into lb/ft³ lb/ft³ into g/cc	Density	$\text{___ g/cc} \times 62.4 = \text{___ lb/ft}^3$ $\text{___ lb/ft}^3 \div 62.4 = \text{___ g/cc}$
11	lbs/in³ into lb/ft³ lb/ft³ into lbs/in³	Density	$\text{___ lb/in}^3 \div 0.0005787 = \text{___ lb/ft}^3$ $\text{___ lb/ft}^3 \times 0.0005787 = \text{___ lb/in}^3$
12	Oz./in³ into lb/ft³ lb/ft³ into Oz./in³	Density	$\text{___ oz/in}^3 \times 108 = \text{___ pcf}$ $\text{___ pcf} \div 108 = \text{___ oz/in}^3$
13	lbf(lbs) into Newtons(N) Newtons (N) into lbf(lbs)	Force	$\text{___ lbf} \times 4.45 = \text{___ N (Force)}$ $\text{___ N} \div 4.45 = \text{___ lbs}$

14	N/cm into N/m N/m into N/cm	Metric Conversion	$\frac{\text{N/cm}}{0.01} = \text{N/m}$ $\text{N/m} \times 0.01 = \text{N/cm}$
15	N/Meter into N/mm N/mm into N/M	Metric Conversion	$\frac{\text{N/M}}{1000} = \text{N/mm}$ $\text{N/mm} \times 1000 = \text{N/M}$
16	meters into feet feet into meters	Metric Conversion	$\text{Meters} \times 3.28 = \text{feet}$ $\text{feet} \div 3.28 = \text{meters}$
17	mm into inches inches into mm	Metric Conversion	$\text{mm} \times 0.03937 = \text{inches}$ $\text{inches} \div 0.03937 = \text{mm}$
18	cm into inches inches into cm	Metric Conversion	$\text{cm} \times 0.3937 = \text{inches}$ $\text{inches} \div 0.3937 = \text{cm}$
19	mm ³ into in ³ in ³ into mm ³	Metric Conversion	$\text{mm}^3 \times 0.00006102 = \text{in}^3$ $\text{in}^3 \div 0.00006102 = \text{mm}^3$
20	Mpa into kPa kPa into MPa Pa into kPa	Metric Conversion	$\text{Mpa} \times 1000 = \text{kPa}$ $\text{kPa} \div 1000 = \text{Mpa}$ $\text{Pa} \div 1000 = \text{kPa}$
21	basically the inverse of density specific volume units: cm ³ /g; in ³ /lb. cm ³ /g into g/cm ³ g/cm ³ into cm ³ /g	Specific Volume	1/specific gravity 1/density
22	ppi into N/m N/m into ppi	Tear	$\text{ppi} \times 175.12 = \text{N/M}$ $\text{N/M} \div 175.12 = \text{ppi}$
23	kg/cm into pli (lb/in) pli (lb/in) into kg/cm	Tear	$\text{kg/cm} \times 5.607 = \text{pli}$ $\text{pli} \div 5.607 = \text{kg/cm}$
24	kN/m into lb/in. lb/in. into kN/m	Tear	$\text{kN/m} \div 0.175 = \text{lb/in.}$ $\text{lb/in.} \times 0.175 = \text{kN/m}$
25	N/mm ² into psi psi into N/mm ²	Tensile	$\text{N/mm}^2 \times 100 = \text{N/cm}^2$ $\text{N/cm}^2 \div 0.6894 = \text{psi}$ $\text{psi} \times 0.6894 = \text{N/cm}^2$ $\text{N/cm}^2 \div 100 = \text{N/mm}^2$
26	kg/m ² into lb/ft ² lb/ft ² into kg/m ²	Water ABS	$\text{kg/m}^2 \times 0.2045 = \text{lb/ft}^2$ $\text{lb/ft}^2 \div 0.2045 = \text{kg/m}^2$
27	N/cm into Lb./in, Lb./in into N/cm	Tear	$\text{N/cm} \div 1.75 = \text{lb./in.}$ $\text{Lb./in.} \times 1.75 = \text{N/cm}$