

Conversion Factors

| To convert | From Unit | To Units | Multiply by |
|--|--------------------|---------------------------|---------------------------------------|
| Atmospheres (standard) to pounds per square inch | A | lbf/in ² (psi) | 14.70 |
| Atmospheres (standard) to Pascal | A | Pa | 101325 |
| Bar to kilograms force per square centimetre | bar | kgf/cm ² | 1.0197 |
| Bar to pounds force per square inch | bar | lbf/in ² (psi) | 14.5038 |
| Centigrade to Fahrenheit | °C | °F | multiply by 1.8 and add 32 |
| Centimetres to feet | cm | ft | 0.03280840 |
| Centimetres to inches | cm | in | 0.393701 |
| Centimetres ³ to feet ³ | cm ³ | ft ³ | 0.0000353147 |
| Centimetres ³ to inches ³ | cm ³ | in ³ | 0.06102376 |
| Fahrenheit to Centigrade | °F | °C | subtract 32 and multiply by 0.5555 |
| Feet per second to miles per hour | ft/s | mph | 0.681818 |
| Feet to centimetres | ft | cm | 30.48 |
| Feet to metres | ft | m | 0.3048 |
| Feet to millimetres | ft | mm | 304.8 |
| Feet ³ to metres ³ | ft ³ | m ³ | 0.02831685 |
| Feet ³ to gallons | ft ³ | gal | 6.2288 |
| Foot pounds to kilogram metres | ftlb | kgm | 0.1382 |
| Gallons (UK) to litres | gal | l | 4.546092 |
| Gallons (US) to litres | gal | l | 3.785412 |
| Grams per centimetres ³ to pounds per inch ³ (density) | gm/cm ³ | lb/in ³ | 0.0361275 |
| Grams to ounces | gm | oz | 0.035274 |
| Grams to pounds | gm | lb | 0.00220462 |
| Inches to centimetres | in | cm | 2.540 |
| Inches to metres | in | m | 0.0254 |
| Inches to millimetres | in | mm | 25.4 |
| Inches ³ to centimetres ³ | in ³ | cm ³ | 16.38706 |
| Inches ³ to litres | in ³ | l | 0.01639 |
| Kilogram metres to foot pounds | kgm | ftlb | 7.233 |
| Kilograms force to bar | kgf | B | 0.9807 |
| Kilograms force to Newtons | kgf | N | 9.806650 |
| Kilograms per metre to pounds per foot (assuming constant cross sectional area) | kg/m | lb/ft | 0.671970 |
| Kilograms per square centimetre to pounds per square inch | kg/cm ² | lb/in ² (psi) | 14.223 |
| Kilograms per square metre to pounds per square foot | kg/m ² | lb/ft ² | 0.2048 |
| Kilograms per square metre to Newtons per square metre | kg/m ² | N/m ² | 9.806650 |
| Kilograms per square millimetre to pounds per square inch | kg/mm ² | lb/in ² (psi) | 1422.34 |
| Kilograms per square millimetre to tons per square inch | kg/mm ² | ton/in ² | 0.63497 |
| Kilograms to pounds | kg | lb | 2.205 |
| Kilograms to tons (long) | kg | ton | 0.0009842 |
| Kilometres to miles | km | mile | 0.62137 |
| Litres of water at 62°F to pounds | l | lb | 2.205 |
| Litres to inches ³ | l | in ³ | 61.03 |
| Litres to gallons (UK) | l | gal | 0.2199692 |
| Litres to gallons (US) | l | gal | 0.2641720 |
| Metres to inches | m | in | 39.37008 |
| Metres to miles | m | miles | 0.000621371 |
| Metres to feet | m | ft | 3.28084 |
| Metres to yards | m | yd | 1.093613 |

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|---|--------------------------|--------------------------|--------------|
| Metre ³ to inch ³ | m ³ | in ³ | 61023.76 |
| Metre ³ to feet ³ | m ³ | ft ³ | 35.31466 |
| Metre ³ to gallon (UK) | m ³ | gallon | 219.9692 |
| Metre ³ to gallon (US) | m ³ | gallon | 264.1720 |
| Metre ³ to litre | m ³ | l | 1000.0 |
| Metre ³ to yard ³ | m ³ | yd ³ | 1.307951 |
| Metric tons (or tonnes, 1000 kg) to long tons | tonne | ton | 0.9842 |
| Miles per hour to feet per second | mph | ft/s | 1.46666 |
| Miles to kilometres | m | km | 1.60934 |
| Millimetres to feet | mm | ft | 0.003280840 |
| Millimetres to inches | mm | in | 0.03937008 |
| Newtons per square metre (Pascal) to kilograms per square metre | N/m ² (Pa) | kg/m ² | 0.1019716 |
| Newtons per square metre (Pascal) to pounds per square inch | N/m ² (Pa) | lb/in ² (psi) | 0.000145 |
| Newtons per square millimetre to pounds per square inch | N/mm ² | lb/in ² (psi) | 145.0377 |
| Newtons per square millimetre to tons per square inch | N/mm ² | tons/in ² | 0.06475 |
| Newtons to kilograms force | N | kgf | 0.1019716 |
| Newtons to pounds force | N | lbf | 0.2248089 |
| Ounces to grams | oz | gm | 28.3495 |
| Pints imperial to litres | pt | l | 0.5679 |
| Pounds force to Newtons | lbf | N | 4.448222 |
| Pounds per inch ³ to grams per centimetre ³ (density) | lb/in ³ | gm/cm ³ | 27.67990 |
| Pounds per foot to kilograms per metre (assuming constant cross sectional area) | lb/ft | kg/m | 1.4882 |
| Pounds per square foot to kilograms per square metre | lb/ft ² | kg/m ² | 4.882429 |
| Pounds per square inch to atmospheres | lb/in ² (psi) | A | 0.06803 |
| Pounds per square inch to bars | lb/in ² (psi) | bar | 0.06894757 |
| Pounds per square inch to kilograms per square centimetre | lb/in ² (psi) | kg/cm ² | 0.07030697 |
| Pounds per square inch to kilograms per square millimetre | lb/in ² (psi) | kg/mm ² | 0.0007030697 |
| Pounds per square inch to Newtons per square millimetre | lb/in ² (psi) | N/mm ² | 0.006894757 |
| Pounds to grams | lb | gm | 453.60 |
| Pounds to kilograms | lb | kg | 0.453593 |
| Square centimetres to square inches | cm ² | in ² | 0.1550003 |
| Square feet to square metres | ft ² | m ² | 0.09290304 |
| Square inches to square centimetres | in ² | cm ² | 6.4516 |
| Square inches to square millimetres | in ² | mm ² | 645.16 |
| Square kilometres to square miles | km ² | miles ² | 0.386103 |
| Square metres to square feet | m ² | ft ² | 10.763910 |
| Square metres to square yards | m ² | yd ² | 1.195990 |
| Square miles to square kilometres | miles ² | km ² | 2.590 |
| Square millimetres to square inches | mm ² | in ² | 0.001550003 |
| Square yards to square metres | yd ² | m ² | 0.8361274 |
| Tons per square inch to kilograms per square millimetre | ton/in ² | kg/mm ² | 1.575 |
| Tons per square inch to Newtons per square millimetre | ton/in ² | N/mm ² | 15.4443 |
| Tons (long) to kilograms | ton | kg | 1016.047 |
| Tons (long) to metric tons (or tonne, 1000 kg) | ton | tonne | 1.016047 |
| Yards to metres | yd | m | 0.9144 |
| Yards ³ to metres ³ | yd ³ | m ³ | 0.7645549 |