



STANDARDS CONVERSION TABLE

| Convert From | Convert To | Multiply By | Convert From | Convert To | Multiply By |
|---------------------------------------|---------------------------------------|-----------------|---------------------|-----------------------------|---------------|
| Length | | | Stress | | |
| Inches (in) | millimeters (mm) | 25.4 | PSI | Pascals (Pa) | 6,894.80 |
| Inches (in) | Centimeters (cm) | 2.54 | PSI | Megapascals (Mpa) | 0.0069 |
| Inches (in) | Yards (yd) | 0.02778 | PSI | kgf/m ² | 70,320 |
| Centimeters (cm) | Inches (in) | 0.3937 | KSI | Pascals (Pa) | 6,895,000 |
| Millimeters (mm) | Inches (in) | 0.03937 | KSI | Megapascals (Mpa) | 6.895 |
| Feet (ft) | Meters (m) | 0.3048 | KSI | kgf/m ² | 0.7032 |
| Meters (m) | Feet (ft) | 3.281 | kg/cm ² | Pascals or N/m ² | 98,067.09 |
| Meters (m) | Yards (yd) | 1.094 | kg/mm ² | Pascals or N/m ² | 9,806,709 |
| Yards (yd) | Meters (m) | 0.9144 | MN/m ² | Megapascals (Mpa) | 1 |
| Miles (mi) | Feet (ft) | 5,280 | Megapascals (Mpa) | PSI | 145 |
| Miles (mi) | Kilometers (km) | 1.609 | Pascal (Pa) | PSI | 0.000145 |
| Area | | | Weight/Force | | |
| Square Inches (in ²) | Square Millimeters (mm ²) | 645.16 | Ounces (oz) | Grams (g) | 28.3495 |
| Square Inches (in ²) | Square Meters (m ²) | 0.000645 | Ounces (oz) | Pounds (lbs) | 0.0625 |
| Square Feet (ft ²) | Square Millimeters (mm ²) | 92,900 | Pounds (lbs) | Grams (g) | 453.59 |
| Square Feet (ft ²) | Square Meters (m ²) | 0.0929 | Pounds (lbs) | Kilograms (kgs) | 0.04536 |
| Square Centimeters (cm ²) | Square Inches (inch ²) | 0.155 | Pounds Force (lbf) | Newtons (N) | 4.4482 |
| Square Millimeters (mm ²) | Square Inches (in ²) | 0.0016 | Kip | Pounds (lbs) | 1,000 |
| Square Meters (m ²) | Square Inches (in ²) | 1,550 | Kip | Newtons (N) | 4,448 |
| Square Meters (m ²) | Square Feet (ft ²) | 10.7639 | Tons (t) | Kilonewtons (kN) | 8.8964 |
| | | | Grams (g) | Ounces (oz) | 0.03527 |
| Volume | | | Grams (g) | Pounds (lbs) | 0.0022 |
| Cubic Inches (in ³) | Cubic Feet (ft ³) | 0.000597 | Grams (g) | Joules/Centimeter (J/cm) | 0.0001 |
| Cubic Meters (m ³) | Cubic Inches (in ³) | 61,023 | Kilograms (kgs) | Grams (gms) | 1,000 |
| Cubic Meters (m ³) | Cubic Centimeters (cm ³) | 1,000,000 | Kilograms (kgs) | Joules/Centimeter (J/cm) | 0.0981 |
| Liters (L) | Gallons (gal) | 0.2642 | Kilograms (kgs) | Joules/Meter (J/m) | 9.8707 |
| Gallons (gal) | Liters (L) | 3.785 | Kilograms (kgs) | Pounds (lbs) | 2.2047 |
| Quarts (qt) | Liters (L) | 0.94633 | Newtons (N) | Pounds Force (lbf) | 0.2248 |
| Temperature | | | Energy | | |
| °F | °C | (°F-32)/1.8 | in-lb | Joule (J) | 0.113 |
| °F | K | (°F+459.67)/1.8 | ft-lb | Joule (J) | 1.3558 |
| °C | °F | (°C * 1.8)+32 | kg-m | Joule (J) | 9.8067 |
| °C | K | °C+273.15 | Joule (J) | ft-lbs | 0.7376 |
| K | °C | °C-273.15 | Joule (J) | kg-m | 0.102 |
| °F | R | R = F + 459.67 | ft-lb | MJ/m ² | 0.0169 |
| Time | | | SI Prefixes | | |
| Hours | Days | 0.0417 | Base | n | 1,000,000,000 |
| Hours | Weeks | 0.005952 | Base | μ | 1,000,000 |
| Hours | Seconds | 3,600 | Base | m | 1,000 |
| Days | Seconds | 86,400 | Base | k | 0.001 |
| Years | Seconds | 31,556,926 | Base | M | 0.000001 |

Source CRC Handbook: All values subject to validation.

These values are approximate and this chart is intended primarily as a guide.