

CONVERSION DATA

| Quantity | To convert from | To | Multiply by |
|---------------------------|---|--------------------------------|-------------|
| Length | Feet (ft) | Metres | .3048 |
| | | Millimetres | 304.8 |
| | Metres (m) | Feet | 3.2808 |
| | | Inches | 39.3701 |
| | Inches (in) | Metres | 0.0254 |
| | | Millimetres | 25.4 |
| Area | Square Inches (in ²) | Square Millimetres | 645.16 |
| | Square Millimetres (mm ²) | Square Inches | 0.00155 |
| Volume | Cubic Inches (in ³) | Cubic Millimetres | 16387.064 |
| | Cubic Millimetres (mm ³) | Cubic Inches | 0.000061024 |
| Force | Pounds Force (lbf) | Newtons | 4.4498 |
| | | Kilograms Force | 0.4536 |
| | Newtons (N) | Pounds Force | 0.2247 |
| | | Kilograms Force | 0.102 |
| | Kilograms Force (kgf) | Newtons | 9.81 |
| | | Pounds Force | 2.2046 |
| Rate | Pounds Force per Inch (lbf/in) | Kilograms Force per Millimetre | 0.017858 |
| | | Newtons per Millimetre | 0.17519 |
| | Newtons per Millimetre (N/mm) | Pounds Force per Inch | 5.7082 |
| | | Kilograms Force per Millimetre | 0.102 |
| | Kilograms Force per Millimetre (kgf/mm) | Newtons per Millimetre | 9.81 |
| | | Pounds Force per Inch | 55.997 |
| Torque | Pound Force-inch (lbf/in) | Kilogram Force-Millimetre | 11.52136 |
| | | Newton-Metre | 0.11302 |
| | Newton-Metre (Nm) | Pound Force-inch | 8.84763 |
| | | Ounce Force-inch | 141.562 |
| | | Kilogram Force-Millimetre | 101.937 |
| | Kilogram Force-Millimetre (kgf/mm) | Pound Force-inch | 0.086796 |
| | | Newton-Metre | 0.00981 |
| | | Ounce Force-inch | 1.3887 |
| Ounce Force-inch (ozf/in) | Pound Force-inch | 0.0625 | |
| | Newton-Metre | 0.007064 | |
| | Kilogram Force-Millimetre | 0.72 | |

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| Quantity | To convert from | To | Multiply by |
|-------------------|--|---|--------------------|
| Stress | Pound Force per Square Inch (lbf/in ²) | kgf/mm ² | 0.000703 |
| | | hbar | 0.000689 |
| | | N/mm ² | 0.006895 |
| | | tonf/in ² | 0.000446 |
| | Kilogram Force per Square Millimetre (kgf/mm ²) | lbf/in ² | 1422.823 |
| | | hbar | 0.981 |
| | | N/mm ² | 9.81 |
| | | tonf/in ² | 0.635 |
| | Hectobars (hbar) | lbf/in ² | 1450.38 |
| | | N/mm ² | 10 |
| | | kgf/mm ² | 1.019368 |
| | | tonf/in ² | 0.6475 |
| | Newton per Square Millimetre (N/mm ²) | lbf/in ² | 145.038 |
| | | kgf/mm ² | 0.101937 |
| | | hbar | 0.1 |
| | | tonf/in ² | 0.06475 |
| | Ton Force per Square Inch (tonf/in ²) | lbf/in ² | 2240.0 |
| | | kgf/mm ² | 1.5743 |
| hbar | | 1.54442 | |
| N/mm ² | | 15.4442 | |
| Pressure | Pound Force per Square Inch | to kPa | 6.895 |
| Length | 1 cm = 0.3937 in | 1 in = 25.4 mm | 1 m = 3.2808 ft |
| | 1 ft = 0.3048 m | 1 km = 0.6214 mile | 1 mile = 1.6093 km |
| Weight | 1 g = 0.0353 oz | 1 oz = 28.35 g | |
| | 1 kg = 2.2046 lb | 1 lb = 0.4536 kg | |
| | 1 tonne = 0.9842 ton | 1 ton = 1.016 tonne | |
| Area | 1 m ² = 1.196 yard ² | 1 in ² = 645.2 mm ² | |
| | 1 hectare = 2.471 acre | 1 yard ² = 0.8361 m ² | |
| | 1 acre = 0.4047 hectare | 1 sq mile = 259 hectare | |

MATHEMATICAL SYMBOLS

| | | | | | |
|---|--|---|----------------------------------|---|-------------------------|
| + | plus or positive | ~ | of the order of or similar to | ∞ | infinity |
| - | minus or negative | > | greater than | ∝ | proportional to |
| ± | plus or minus, positive or negative | < | less than | ∑ | sum of |
| x | multiplied by | ⋯ | not greater than | ∏ | product of |
| ÷ | divided by | ⋯ | not less than | Δ | difference therefore |
| = | equal to | ≥ | greater than or equal to | ∠ | angle |
| ≡ | identically equal to | ≤ | less than or equal to | ∥ | parallel to |
| ≠ | not equal to | ≫ | much greater than | ⊥ | perpendicular to |
| / | not identically equal to | ≪ | much less than | : | is to |
| ≅ | approximately equal to | √ | square root | | |