



Technically Advanced Flexible Solutions

### Conversion Factors

#### Length (distance)

Inches (in)	x 25.4 = Millimetres (mm)	x 0.0394 = Inches (in)
Feet (ft)	x 0.305 = Metres (m)	x 3.281 = Feet (ft)
Miles	x 1.609 = Kilometres	x 0.621 = Miles

#### Volume (capacity)

Cubic Inches (cu in; in <sup>3</sup> )	x 16.387 = Cubic centimetres (cc; cm <sup>3</sup> )	x 0.061 = Cubic Inches (cu in; in <sup>3</sup> )
Imperial Pints (Imp pt)	x 0.568 = Litres (l)	x 1.76 = Imperial Pints (Imp pt)
Imperial Quarts (Imp qt)	x 1.137 = Litres (l)	x 0.88 = Imperial Quarts (Imp qt)
Imperial Quarts (Imp qt)	x 1.201 = US quarts (US qt)	x 0.833 = Imperial Quarts (Imp qt)
US Quarts (US qt)	x 0.946 = Litres (l)	x 1.057 = US Quarts (US qt)
Imperial Gallons (Imp gal)	x 4.546 = Litres (l)	x 0.22 = Imperial Gallons (Imp gal)
Imperial Gallons (Imp gal)	x 1.201 = US gallons (US gal)	x 0.833 = Imperial Galons (Imp gal)
US Gallons (US gal)	x 3.785 = Litres (l)	x 0.264 = US Gallons (US gal)

#### Mass (weight)

Ounces (oz)	x 28.35 = Grams (g)	x 0.035 = Ounces (oz)
Pounds (lb)	x 0.454 = Kilograms (kg)	x 2.205 = Pounds (lb)

#### Force

Ounces-force (ozf; oz)	x 0.278 = Newtons (N)	x 3.6 = Ounces-force (ozf; oz)
Pounds-force (lbf; lb)	x 4.448 = Newtons (N)	x 0.225 = Pounds-force (lbf; lb)
Newtons (N)	x 0.1 = Kilograms-force (kgf; kg)	x 9.81 = Newtons (N)

#### Pressure

Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )	x 0.070 = Kilograms-force per square centimetre (kgf/cm <sup>2</sup> ; kg/cm <sup>2</sup> )	x 14.223 = Pounds-force persquare inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )
Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )	x 0.068 = Atmospheres (atm)	x 14.696 = Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )
Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )	x 0.069 = Bars	x 14.5 = Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )
Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )	x 6.895 = Kilopascals (kPa)	x 0.145 = Pounds-force per square inch (psi; lbf/in <sup>2</sup> ; lb/in <sup>2</sup> )
Kilopascals (kPa)	x 0.01 = Kilograms-force per square centimetre (kgf/cm <sup>2</sup> ; kg/cm <sup>2</sup> )	x 98.1 = Kilopascals (kPa)

#### Torque (moment of force)

Pounds-force inches (lbf in; lb in)	x 1.152 = Kilograms-force centimetre (kgf cm; kg cm)	x 0.868 = Pounds-force inches (lbf in; lb in)
Pounds-force inches (lbf in; lb in)	x 0.113 = Newton metres (Nm)	x 8.85 = Pounds-force inches (lbf in; lb in)
Pounds-force inches (lbf in; lb in)	x 0.083 = Pounds-force feet (lbf ft; lb ft)	x 12 = Pounds-force inches (lbf in; lb in)
Pounds-force feet (lbf ft; lb ft)	x 0.138 = Kilograms-force metres (kgf m; kg m)	x 7.233 = Pounds-force feet(lbf ft; lb ft)
Pounds-force feet (lbf ft; lb ft)	x 1.356 = Newton metres (Nm)	x 0.738 = Pounds-force feet (lbf ft; lb ft)
Newton metres (Nm)	x 0.102 = Kilograms-force metres (kgf m; kg m)	x 9.804 = Newton metres (Nm)

#### Power

Horsepower (hp)	x 745.7 = Watts (W)	x 0.0013 = Horsepower (hp)
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#### Velocity

Miles per hour (miles/hr; mph)	x 1.609 = Kilometres per hour(km/hr; kph)	x 0.621 = Miles per hour (miles/hr; mph)
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#### Fuel consumption\*

Miles per gallon, Imperial (mpg)	x 0.354 = Kilometres per litre (km/l)	x 2.825 = Miles per gallon, Imperial (mpg)
Miles per gallon, US (mpg)	x 0.425 = Kilometres per litre (km/l)	x 2.352 = Miles per gallon,US (mpg)

#### Temperature

$$\text{Degrees Fahrenheit} = (^\circ\text{C} \times 1.8) + 32 \qquad \text{Degrees Celsius (Degrees Centigrade: } ^\circ\text{C)} = (^\circ\text{F} - 32) \times 0.56$$

\*It is common practise to convert from miles per gallon (mpg) to litres /100 kilometres (l/100km), where mpg (Imperial) x l/100km = 282 and mpg (US) x 1/100 km = 235