

CONVERSION FACTORS

Length Conversion

Convert			Into			Multiply by factor	
inches	in	}	millimetres	mm	}		25.4
feet	ft		metres	m		0.3048	
yards	yd		metres	m		0.9144	
miles	mile		kilometres	km		1.609344	
millimetres	mm		inches	in		0.0394	
metres	m		feet	ft		3.28084	
kilometres	km		miles	mile		0.621371	

Area Conversion

Convert			Into			Multiply by factor	
square yards	yd ²	}	square metres	m ²	}		0.836
square feet	ft ²		square metres	m ²		0.092903	
square inches	in ²		square millimetres	mm ²		645.16	
square inches	in ²		square centimetres	cm ²		6.4516	
square meters	m ²		square yards	yd ²		1.9599	
square meters	m ²		square feet	ft ²		10.7639	
square millimetres	mm ²		square inches	in ²		0.00155	
square centimetres	cm ²	square inches	in ²	0.155			

Volume Conversion

Convert			Into			Multiply by factor	
cubic inches	in ³	}	cubic centimetres	cm ³	}		16.3871
cubic inches	in ³		cubic decimetre	dm ³		0.0163871	
cubic feet	ft ³		cubic metre	m ³		0.0283168	
cubic feet	ft ³		cubic decimetre	dm ³		28.3168	
UK gallon	gal		cubic decimetre	dm ³		4.54609	
cubic centimetres	cm ³		cubic inches	in ³		0.0610237	
cubic decimetres	cm ³		cubic inches	in ³		61.0237	
cubic decimetres	dm ³	cubic feet	ft ³	0.0353147			
cubic decimetres	dm ³	UK gallon	gal	0.219969			
cubic metres	m ³	cubic feet	ft ³	35.3147			

Mass Conversion

Convert			Into			Multiply by factor	
pound	lb	}	kilogram	kg	}		0.45359237
UK ton	ton		tonne (1000 kg)	t		1.01605	
ounce	oz		gram	g		28.3495	
kilogram	kg		pound	lb		2.20462	
tonne (1000 kg)	t		UK ton	ton		0.984207	
gram	g		ounce	oz		0.035274	

Mass Per Unit

Convert			Into			Multiply by factor	
pounds per inch	lb/in	}	kilogram per metre	kg/m	}		17.858
pounds per foot	lb/ft		kilogram per metre	kg/m		1.48816	
kilogram per metre	kg/m		pounds per inch	lb/in		0.055997	
kilogram per metre	kg/m		pounds per foot	lb/ft		0.671969	

Density Conversion

Convert			Into			Multiply by factor
pounds per cubic inch	lb/in ³		gram per cubic centimetre	g/cm ³		27.6799
pounds per cubic foot	lb/ft ³		kilogram per cubic metre	kg/m ³		0.0160185
ounce per UK gallon	oz/UK gal		gram per cubic metre	g/m ³		6236.03
ounce per UK gallon	oz/UK gal	>	milligram per litre	mg/litre	>	6236.03
gram per cubic centimetre	g/cm ³		pounds per cubic inch	lb/in ³		0.0361273
kilogram per cubic metre	kg/m ³		pounds per cubic foot	lb/ft ³		62.428
gram per cubic metre	g/m ³		ounce per UK gallon	oz/UK gal		1.6036E-04
milligram per litre	mg/litre		ounce per UK gallon	oz/UK gal		1.6036E-04

Force Conversion

Convert			Into			Multiply by factor
pound-force	lbf		newton	N		4.44822
ounce-force	ozf		newton	N		0.278014
poundal	pdl		newton	N		0.138255
kilogram-force	kgf	>	newton	N	>	9.80665
newton	N		kilogram-force	kgf		0.101972
newton	N		pound-force	lbf		0.224809
newton	N		ounce-force	ozf		3.59694
newton	N		poundal	pdl		7.23301

Moment of Force (Torque)

Convert			Into			Multiply by factor
pound-force foot	lbf.ft		newton metre	Nm		1.35582
pound-force inch	lbf.in		newton metre	Nm		0.112985
ounce-force inch	ozf.in		newton metre	Nm		0.0070616
pound-force foot	lbf.ft	>	kilogram-force metre	kgf.m	>	0.138255
pound-force inch	lbf.in		kilogram-force metre	kgf.m		0.011521
newton metre	Nm		pound-force foot	lbf.ft		0.737562
newton metre	Nm		pound-force inch	lbf.in		8.85075
newton metre	Nm		ounce-force inch	ozf.in		141.612

Stress Conversion

Convert			Into			Multiply by factor
UK ton-force per square inch	tonf/in ²		newton per square millimetre	N/mm ²		15.4443
UK ton-force per square inch	tonf/in ²		meganewton per square metre	MN/m ²		15.4443
UK ton-force per square inch	tonf/in ²	>	megapascal	Mpa	>	15.4443
newton per square millimetre	N/mm ²		UK ton-force per square inch	tonf/in ²		0.064749
meganewton per square metre	MN/m ²		UK ton-force per square inch	tonf/in ²		0.064749
megapascal	Mpa		UK ton-force per square inch	tonf/in ²		0.064749

Volume Conversion

Convert			Into			Multiply by factor
pound-force per square inch	lbf/in ²		newton per square metre	N/m ²		6894.76
pound-force per square inch	lbf/in ²		pascal	Pa		6894.76
pound-force per square inch	lbf/in ²		kilonewton per square metre	kN/m ²		6894.76
inch of water	in H ₂ O		newton per square metre	N/m ²		2.59008
inch of mercury	in Hg	>	newton per square metre	N/m ²	>	35.21243
newton per square metre	N/m ²		pound-force per square inch	lbf/in ²		1.45038x10 (-4)
pascal	Pa		pound-force per square inch	lbf/in ²		1.45038x10 (-4)
kilonewton per square metre	kN/m ²		pound-force per square inch	lbf/in ²		0.145038
newton per square metre	N/m ²		inch of water	in H ₂ O		0.38609
newton per square metre	N/m ²		inch of mercury	in Hg		0.028399