



Non Metric Units (US resp. UK Units)

Quantity	Unit	Symbol	Conversion into SI Unit
Length	inch	in	1 in = 25.4 mm
	foot	ft	1 ft = 12 in = 0.3048 m
	yard	yd	1 yd = 3 ft = 0.9144 m
	mile (statue)	mi	1 mi = 1760 yd = 1.609344 km
	nautical mile (int.)	nmi	1 nmi = 1.852 km
Velocity	knot (int.)	kn	1 kn = 1 nmi/h = 0.5144 m/s
	mile per hour	mph	1 mi/h = 0.4470 m/s
Area	square inch	sq in	1 sq in = 6.4516 cm ²
	square foot	sq ft	1 sq ft = 144 sq in = 929,030 cm ²
	square yard	sq yd	1 sq yd = 9 sq ft = 0,836127 m ²
	rood		1 rood = 1210 sq yd = 1011,71 m ²
	acre		1 acre = 4 roods = 4046,86 m ²
	square mile	sq mi	sq mi = 640 acres = 2,5899888 km ²
Volume	cubic inch	cu in	1 cu in = 16,3871 cm ³
	cubic foot	cu ft	1 cu ft = 28,3168 dm ³
	cubic yard	cu yd	1 cu yd = 0,764555 m ³
British measures of capacity	UK fluid ounce	UK fl oz	1 fl oz = 28,4131 cm ³
	UK gill		1 gill = 5 fl oz = 0,142065 dm ³
	UK pint	UK pt	1 pt = 20 fl oz = 0,568261 dm ³
	UK quart	UK qt	1 qt = 2 pt = 1,13652 dm ³
	UK gallon	UK gal	1 gal = 4 qt = 4,54609 dm ³
American fluid measures	US fluid ounce	US fl oz	1 fl oz = 29,5735 cm ³
	US gill	gi	1 gi = 4 fl oz = 0,118294 dm ³
	US liquid pint	liq pt	1 liq pt = 4 gi = 0,473176 dm ³
	US liquid quart	liq qt	1 liq qt = 2 liq pt = 0,946353 dm ³
	US gallon	US gal	1 gal = 4 liq qt = 3,78541 dm ³
	US barrel (oil)	bbl	1 bbl = 42 gal = 158,987 dm ³
American dry measures	US dry pint	dry pt	1 dry pt = 0,550610 dm ³
	US dry quart	dry qt	1 dry qt = 2 dry pt = 1,10122 dm ³
	US peck	pk	1 pk = 8 dry qt = 8,80976 dm ³
	US bushel (oil)	bu	1 bu = 4 pk = 35,2391 dm ³
Mass	grain	gr	1 gr = 0,064799 g
	dram (avoir dupois)	dr	1 dr = 27,34375 gr = 1,77185 g
	ounce (avdp)	oz	1 oz = 16 dr = 28,3495 g
	troy ounce	oz tr	1 oz tr = 480 gr = 31,1035 g
	pound (avdp)	lb	1 lb = 16 oz = 0,453592 kg
	troy pound	lb tr	1 lb tr = 12 oz tr = 0,373242 kg
	stone (UK)		1 stone = 14 lb = 6,35029 kg
	hundredweight (UK)	cwt	1 cwt = 112 lb = 50,8023 kg
	(long) ton (UK)	ton	1 ton = 2240 lb = 1016,05 kg
	short hundredweight (US)	sh cwt	1 sh cwt = 100 lb = 45,3592 kg
	short ton (US)	sh ton	1 sh ton = 2000 lb = 907,185 kg
	Force	poundal	pdl
pound-force		lbf	1 lbf = 4,44822 N
UK ton-force		UK tonf	1 tonf = 2240 lbf = 9964,02 N
US ton-force = 2 kip		US tonf	1 tonf = 2000 lbf = 8896,44 N

Quantity	Unit	Symbol	Conversion into SI Unit
Pressure	pound-force/sq ft	lbf/ft ²	1 lbf/ft ² = 47,8803 Pa
	pound-force/sq in	lbf/in ² , psi	1 lbf/in ² = 6,89476 kPa
Energy, thermal energy	foot pound-force	ft·lbf	1 ft·lbf = 1,35582 J
	British thermal unit	Btu	1 Btu = 1,05506 kJ
	therm		1 therm = 10 ⁹ Btu = 105,506 MJ
	QUAD		1 QUAD = 10 ¹⁵ Btu = 1,05506 EJ = 293,07 TWh
	Ton of oil equivalent	Toe	1 Toe = 41,87 GJ = 11,63 MWh
Power	British thermal unit/h	Btu/h	1 Btu/h = 0,293071 W
	horsepower	hp	1 hp = 550 ft·lbf/s = 745,700 W
Temperature	Degree Fahrenheit	°F	Temp.[°C] = (Temp.[°F]-32)·5/9
			Temp.-Differenz 1°F = 5/9°C = 5/9 K



The Federal Office of Metrology (METAS) maintains the national calibration standards of Switzerland, ensures their international recognition and disseminates them with sufficient accuracy to Switzerland's research, economy and society. METAS takes the necessary steps to ensure that the measurements required for the protection and safety of the population and the environment are made correctly and in compliance with the applicable laws and regulations.

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