

CONVERSION FACTORS (Continued)

To convert	To	Multiply by
(FLUID) CAPACITY		
1 gal (U.S. Liquid)**	L*	3.785 41
1 qt (U.S. Liquid)	mL	946.353
1 pt (U.S. Liquid)	mL	473.177
1 fl oz (U.S.)	mL	29.573541
1 gal (U.S. Liquid)	m ³	0.003 785
**1 gallon (UK) approx. 1.2 gal (U.S.), *1 liter = 0.001 cubic meters		
SECOND MOMENT OF AREA		
1 in ⁴	mm ⁴	416 231
	m ⁴	0.416 231 x 10 ⁶
PLANE ANGLE		
1° (degree)	rad	0.017 453 3
	mrad	17.4533
1' (minute)	urad	290.888
1" (second)	urad	4.848 14
VELOCITY, SPEED		
1 ft/s	m/s	0.3048
1 mile/h	km/h	1.609 344
	m/s	0.447 04
VOLUME RATE OF FLOW		
1 ft ³ /s	m ³ /s	0.028 316 8
1 ft ³ /min	L/s	0.471 947
1 gal/min	L/s	0.063 090 2
1 gal/min	m ³ /min	0.0038
1 gal/h	mL/s	1.051 50
1 million gal/d	L/s	43.8126
1 acre ft/s	m ³ /s	1233.49
TEMPERATURE INTERVAL		
°F	°C	(°F-32)·(5/9)
	°K	Add 273.15 to °C
EQUIVALENT TEMPERATURE ($t_c = T_K - 273.15$)		
t°F		9/5 t°C + 32
MASS		
1 ton (short***)	metric ton	0.907 185
	kg	907.185
1 lb	kg	0.453 592
1 oz	g	28.3495
***1 long ton (2240 lb)	kg	1016.05
MASS PER UNIT AREA		
1 lb/ft ²	kg/m ²	4.882 43
1 oz/yd ²	g/m ²	33.9057
1 oz/ft ²	g/m ²	305.152