

Conversion Factors

A	B	C
To convert from	To	Multiply by
Atmospheres	psi	14.7
Atmospheres	Feet of Water	33.9
Atmospheres	Inches of Mercury	29.9
Barrels (U.S. liq.)	Gallons (U.S.)	31.5
Barrels of oil	Gallons (U.S.)	42.0
B.T.U.	H.P. hr.	.0003929
Centimeters	Feet	.03280
Centimeters	Inches	.3937
Centimeters/min.	Feet/min.	1.9684
Centimeters/sec.	Feet/sec.	.03280
Centipoises	Poises	.01
Centistokes	Stokes	.01
Cubic centimeters	Cu. feet	3.514x10 ⁻⁵
Cubic centimeters	Cu. inches	.06102
Cubic centimeters	Gallons (liq.)	.000264
Cubic feet	Gallons (liq.)	7.4805
Cubic feet	Cubic inches	1728
Cubic feet/min.	gpm	7.4805
Cubic inches	Gallons	.004329
Cubic inches	Cubic cm.	16.387
Cubic inches	Cubic feet	.0005787
Cubic meters	Gallons (liq.)	264.17
Cubic meters	Cubic cm.	1x10 ⁴
Cubic meters	Cubic feet	35.31
Cubic meters	Cubic inches	61,023.38
Degrees	Revolutions	.00277778
Dynes	Pounds	2.24809x10 ⁻⁶
Dynes/sq.cm.	psi	1.45038x10 ⁻⁵
Fathom	Feet	6
Feet	Centimeters	30.48006
Feet	Meters	.3048006
Feet of water	Atmosphere	.02949
Feet of water	psi	.433
Feet of water	Inches of Hg.	.884
Feet/hr.	Miles/hour	.00018939
Feet/min.	Meters/min.	.3048
Feet/min.	Miles/hour	.01136
Feet/seconds	Miles per hour	.681818
Foot pounds	H.P. hr.	5.0505x10 ⁻¹
Foot pounds/min.	Horsepower	3.30303x10 ⁻⁵
Gallons (U.S.)	Cubic cm.	3,785.43
Gallons (U.S.)	Cubic inches	231
Gallons (U.S.)	Gallons (Imp.)	.83268
Gallons (U.S.)	Cubic feet	.13368
Gallons/min. (U.S.)	Cubic ft./min.	.13368
Horsepower	Ft. lbs./min.	33,000
Horsepower	Ft. lbs./sec.	550
Inches	Feet	.08333
Inches	Meters	.254
Inches	Millimeters	25.40005
Inches	Mils	1000
Inches of Hg	Atmospheres	.033327
Inches of Hg.	Ft. of water	1.1309
Inches of Hg.	psi	.489
Kilograms	Pounds (avdp.)	2.2046
Kilograms/sq.cm.	psi	14.2233

Conversion Factors

A	B	C
To convert from	To	Multiply by
Kilograms/sq. mm.	psi	1422.33
Liters	gallons	.264176
Meters	feet	3.2808
Meters	inches	39.37
Poise	centipoise	100.0
Pounds water	gallons	.11985
psi	atmospheres	.06804
psi	inches of Hg.	2.04179
psi	feet of water	2.31
Square inches	sq.cm.	6.4516
Square inches	sq.ft.	.006944
Square inches	sq. mm.	645.163
Square millimeters	sq. in.	.0015499

Decimal Equivalents

	1/64	.01563"		17/64	.26563"
	1/32	.03125"		9/32	.28125"
	3/64	.04688"		19/64	.29688"
1/16		.0625"	5/16		.3125"
	5/64	.07813"		21/64	.32813"
	3/32	.09375"	11/32		.34375"
	7/64	.10938"		23/64	.32813"
1/8		.125"	3/8		.375"
	9/64	.14063"		25/64	.39063"
	5/32	.15625"	13/32		.40625"
	11/64	.17188"		27/64	.42188"
3/16		.1875"	7/16		.4375"
	13/64	.20313"		29/64	.45313"
	7/32	.21875"	15/32		.46875"
	15/64	.23438"		31/64	.48438"
1/4		.250"	1/2		.500"

Relative Sizes of Particles

Sizes of Familiar Objects

SUBSTANCE	MICRON	INCH
Grain of Table Salt	100	0.004
Human Hair	70	0.0027
Lower Limit of Visibility	40	0.00158
White Blood Cells	25	0.001
Talcum Powder	10	0.0004
Red Blood Cells	8	0.0003
Bacteria (Average)	2	0.00008

Viscosity Conversions

1 Centipoise (CP)	=	4xS.R. 1 approx.
1 Centipoise (CP)	=	Centistoke (C/S) x S.G.
1 Poise	=	400 S.R. 1 approx.
Lbs./Ft.Sec.	=	C/S x S.G. x 6.72 x 10 ⁻⁴
1 S.R. 2	=	10 x S.R. 1
1 Centipoise	=	1 mPa/Sec.



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