

Commonly Used Conversion Factors

Weight Conversions		
To convert from	To	Multiply by
grams	ounces (avdp)	0.03527
kilograms	newtons	9.807
kilograms	ounces (avdp)	35.27
kilograms	pounds (avdp)	2.205
kilograms	pounds (troy)	2.679
newtons	kilograms	0.102
ounces (troy)	ounces (avdp)	1.097
ounces (troy)	pounds (avdp)	0.06857
ounces (troy)	pounds (troy)	0.08333
ounces (avdp)	grams	28.35
ounces (avdp)	ounces (troy)	0.9115
pounds (avdp)	kilograms	0.4536
dwt (pennyweight)	grams	1.555
dwt (pennyweight)	ounces (avdp)	0.05486
dwt (pennyweight)	ounces (troy)	0.05
grams	dwt (pennyweight)	0.643

Weight Conversions		
To convert from	To	Multiply by
ounces (avdp)	dwt (pennyweight)	18.23
ounces (troy)	dwt (pennyweight)	20
pounds (avdp)	ounces (troy)	14.58
pounds (avdp)	kilograms	0.4536
pounds (troy)	kilograms	0.3732
pounds (troy)	ounces (troy)	12

Force/Unit Area (Pressure) Conversions		
To convert from	To	Multiply by
kilograms/cm ²	psi	14.223
kilograms/mm ²	psi	1422.3
megapascals (Mpa or Newtons/mm ²)	psi	145.04
newtons/meter ²	pascals	1
newtons/meter ²	psi	0.000145
pascals	newtons/meter ²	1
pascals	psi	0.000145
pounds/in ² (psi)	kilograms/cm ²	0.07031
pounds/in ² (psi)	kilograms/mm ²	6894.8
pounds/in ² (psi)	pascals	6894.8

Length Conversions		
To convert from	To	Multiply by
angstroms	inches	3.937×10^{-9}
centimeters	inches	0.3937
centimeters	feet	0.03281
feet	centimeters	30.48
feet	meters	0.3048
feet	millimeters	304.8
inches	angstroms	2.54×10^8
inches	centimeters	2.54
inches	meters	0.0254
inches	millimeters	25.4
meters	angstroms	1×10^{10}
meters	feet	3.281
meters	inches	39.37
millimeters	feet	0.003281
millimeters	inches	0.03937

Speed/Resistance/Density Conversions		
To convert from	To	Multiply by
centimeters/sec	ft/min	1.9685
centimeters/sec	inches/sec	0.3937
ft/min	inches/sec	0.2
ft/min	centimeters/sec	0.508
gram-centimeters	ounces-inches	0.01389
inches/sec	ft/min	5
microhm cm	ohms/cir.mil ft	6.015
ohms/cir.mil ft	microhm cm	0.1662
ohms/cir.mil ft	ohms mm ² /meter	0.001662
ohms/ft	ohms/meter	3.281
ohms/meter	ohms/ft	0.3048
ohms mm ² /meter	ohms/cir.mil ft	601.5
ounces/inch	gram-centimeters	72.01