

Crucible Tool Steel and Specialty Alloy Selector

METRIC CONVERSIONS

A	B	C	D	E
Angles				
degrees	1.7453×10^{-2}	radians	57.2958	degrees
Area				
square inches	6.4516	square centimeters	0.1550	square inches
square inches	6.4516×10^{-4}	square meters	1.5500×10^3	square inches
square feet	9.2903×10^{-2}	square meters	10.7639	square feet
square yards	8.3613×10^{-1}	square meters	1.1960	square yards
Density				
grams/cubic centimeter	10^3	kilograms/cubic meter	10^{-3}	grams/cubic centimeter
pounds/cubic foot	16.0185	kilograms/cubic meter	6.2428×10^{-2}	pounds/cubic foot
pounds/cubic inch	2.7680×10^4	kilograms/cubic meter	3.6127×10^{-5}	pounds/cubic inch
Energy				
kilowatt hours	3.6×10^6	joules	2.7778×10^{-7}	kilowatt hours
foot pounds	1.3558	joules	0.7376	foot pounds
calories	4.1868	joules	0.2388	calories
kilocalories	4.1868×10^3	joules	2.3885×10^{-4}	kilocalories
BTU	1.0551×10^3	joules	9.4781×10^{-4}	BTU
Length				
inches	2.54×10^{-2}	meters	39.3701	inches
inches	2.54	centimeters	0.3937	inches

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METRIC CONVERSIONS (cont)

A	B	C	D	E
Length (cont)				
inches	25.4	millimeters	3.9370×10^{-2}	inches
inches	2.54×10^4	microns(u)	3.9370×10^{-5}	inches
thousandths of an inch (.001)	25.4	microns(u)	3.937×10^{-2}	thousandths of an inch (.001)
feet	0.3048	meters	3.2808	feet
Mass				
ounces	28.3495	grams	3.5274×10^{-2}	ounces
ounces	2.8350×10^{-2}	kilograms	35.2740	ounces
pounds	0.4536	kilograms	2.2046	pounds
US tons (2000 lbs.)	9.0719×10^2	kilograms	1.1023×10^{-3}	US tons (2000 lbs.)
US tons (2000 lbs.)	0.9072	metric tonnes (1000 kg)	1.1023	US tons (2000 lbs.)
Power				
BTU	0.2931	watts	3.4121	BTU
horsepower	745.7	watts	1.3410×10^{-3}	horsepower
Stress				
psi	6.8948×10^3	newtons/sq. meter (Pa)	1.4504×10^{-4}	psi
psi	6.8948×10^{-3}	MPa	145.0377	psi
ksi	6.8948	MPa	0.1450	ksi
ksi	0.7031	kilograms/ sq. millimeter	1.4223	ksi
Temperature				
degrees Fahrenheit	0.556 (after subtracting 32 from A)	degrees Celcius (centigrade)	1.8 (then add 32)	degrees Fahrenheit

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METRIC CONVERSIONS (cont)

A	B	C	D	E
		Given column A: A x B = C	Given column C: C x D = E	
Thermal Conductivity				
calories/centimeter second °C	4.1868 x 10 ²	watts/meter °K	2.3885 x 10 ⁻³	calories/centimeter second °C
BTU/foot hour °F	1.7307	watts/meter °K	0.5778	BTU/foot hour °F
Thermal Expansion				
inches/inch °F	1.8	mm/mm °C	0.5556	inches/inch °F
Velocity				
feet/second	0.3048	meters/second	3.2808	feet/second
feet/minute	5.08 x 10 ⁻³	meters/second	195.8504	feet/minute
miles/hour	0.4470	meters/second	2.2369	miles/hour
Volume				
cubic inches	1.6387 x 10 ⁻⁵	cubic meters	6.1024 x 10 ⁴	cubic inches
cubic feet	2.8317 x 10 ⁻²	cubic meters	35.3147	cubic feet
cubic yards	0.7646	cubic meters	1.3080	cubic yards
cubic inches	16.3871	cubic centimeters	6.1024 x 10 ⁻²	cubic inches
gallons (US)	3.7854	liters	0.2642	gallons (US)
cubic centimeters	10 ⁻³	liters	10 ³	cubic centimeters