

RVRUSA - DATA DE REFERENCIA PARA INGENIEROS

CONVERSION FACTORS

LENGTH

UNITS	METER	MILS	INCH	FEET	YARD	TERR. MILE (1)	NAUT. MILE(2)
METER	1	39370	39.37	3.281	1.094	0.000621	0.00054
MILS	2.540E-5	1	0.001	8.333E-5	2.778E-5	-	-
INCH	0.02540	1000	1	0.083	0.0278	-	-
FEET	0.3048	12000	12	1	0.333	-	-
YARD	0.914	35997	36	3	1	-	-
TERR. MILE(1)	1609	-	-	5279	1760	1	0.868
NAUT. MILE(2)	1853	-	-	6080	2027	1.151	1

(1)Terr. Mile = Terrestrial Mile; (2)Naut. Mile = Nautical Mile;
 1 micron = 1E-3 millimetres;
 1 angstrom = 1E-7 millimetres

PRESSURE

UNITS	ATM.(1)	MMH ₂ O	MMHG	PA.(2)	BAR	KG/CM ₂
ATM.(1)	1	10332	760	101325	1.01327	1.03333
MMH₂O	9.68E-5	1	0.07355	9.81	9.81E-5	1.0003E-4
MMHG	1.316E-3	13.597	1	133.34	1.333E-3	1.359E-3
PA.(2)	9.87E-6	0.102	7.5E-3	1	1.0001E-5	1.02E-5
BAR	0.9869	10196.69	750.04	99998.02	1	1.02
KG/CM₂	0.9677	9998.74	735.486	98059.61	0.980	1

R V R usa

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MASS

UNITS	KILOGRAM	POUND	OUNCE	DYNES
KILOGRAM	1	2.205	35.27	980665
POUND	0.4535	1	16	444746
OUNCE	0.02835	0.0625	1	27804.5
DYNES	1.02E-6	2.248E-6	36E-6	1

TEMPERATURE

UNITS	°C(1)	°F(2)	K(3)	°R(4)
°C(1)	-	(5*°F)/9-17.78	K-273.15	(5*°R/9)-273.17
°F(2)	(9*°C/5)+32	-	(9*°K/5)-459.67	°R-459.67
K(3)	°C+273.15	(5*°F/9)+255.37	-	(5*°R)/9
°R(4)	(9*°C/5)+491.67	°F+459.67	(9 °R)/5	-

(1) °C = Celsius; (2) °F = Fahreneit; K = Kelvin; °R = Rankine

ENERGY

UNITS	BTU	CALORIE,GRAM	JOULE	ERG
BTU	1	252	1054.8	1.055E10
CALORIE,GRAM	3.9685E-3	1	4.1857	41865079.36
JOULE	9.48E-4	0.2389	1	1E7
ERG	9.48E-11	0.2389E-7	1E-7	1

POWER

UNITS	WATT	BTU/HR	HP	KG-CAL/MIN
WATT	1	3.412	1.341E-3	0.01433
BTU/HR	0.2931	1	3.93E-4	4.2E-3
HP	745.712	2544.22	1	10.68
KG-CAL/MIN	69.78	238.1	0.0936	1

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