

FATORES DE CONVERSÃO

Equivalentes da medida linear

metro (m)	centímetros (cm)	polegada (in)	pé (ft)	milha (mi)
1	100	39,37	3,2808	$6,214 \times 10^{-4}$
$2,54 \times 10^{-2}$	2,54	1	$8,333 \times 10^{-2}$	$1,58 \times 10^{-5}$
0,3048	30,48	12	1	$1,8939 \times 10^{-4}$
$1,61 \times 10^3$	$1,61 \times 10^5$	$6,336 \times 10^4$	5280	1

Equivalentes de área

m ²	cm ²	in ²	ft ²	mi ²
1	1×10^4	$1,55 \times 10^3$	10,764	$3,86 \times 10^{-7}$
1×10^{-4}	1	0,16	$1,08 \times 10^{-3}$	$3,86 \times 10^{-11}$
$6,45 \times 10^{-4}$	6,45	1	1×10^{-2}	$2,49 \times 10^{-10}$
$9,2903 \times 10^{-2}$	$9,29 \times 10^2$	$1,44 \times 10^2$	1	$3,59 \times 10^{-8}$

Equivalentes de volume

in ³	ft ³	Galões americanos	litros	m ³
1	$5,787 \times 10^{-4}$	$4,329 \times 10^{-3}$	$1,636 \times 10^{-2}$	$1,639 \times 10^{-5}$
$1,728 \times 10^3$	1	7,481	28,32	$2,832 \times 10^{-2}$
$2,31 \times 10^2$	0,1337	1	3,785	$3,785 \times 10^{-3}$
61,03	$3,531 \times 10^{-2}$	0,2642	1	$1,000 \times 10^{-3}$
$6,102 \times 10^4$	35,31	264,2	1000	1

Equivalentes de massa

kg	gramas	lbm	slug
1	1000	2,205	$6,85 \times 10^{-2}$
1×10^{-3}	1	$2,205 \times 10^{-3}$	$6,85 \times 10^{-5}$
0,4536	$4,536 \times 10^{-4}$	1	$3,11 \times 10^{-2}$
14,594	$1,14594 \times 10^{-2}$	32,174	1

Equivalentes de potência

hp	kW	(ft)(lbf)/s	Btu/s	J/s
1	0,7457	550	0,7068	$7,457 \times 10^2$
1,341	1	737,56	0,9478	$1,000 \times 10^3$
$1,818 \times 10^{-3}$	$1,356 \times 10^{-3}$	1	$1,285 \times 10^{-3}$	1,356
1,415	1,055	778,16	1	$1,055 \times 10^3$
$1,341 \times 10^{-3}$	$1,000 \times 10^{-3}$	0,7376	$9,478 \times 10^{-4}$	1

Equivalentes de calor, energia ou trabalho

ft/lbf	kWh	hp.h	Btu	cal	J
0,7376	$2,773 \times 10^{-7}$	$3,725 \times 10^{-7}$	$9,484 \times 10^{-4}$	0,2390	1
7,233	$2,724 \times 10^{-6}$	$3,653 \times 10^{-6}$	$9,296 \times 10^{-3}$	2,3438	9,80665
1	$3,766 \times 10^{-7}$	$5,0505 \times 10^{-7}$	$1,285 \times 10^{-3}$	0,3241	1,356
$2,665 \times 10^6$	1	1,341	$3,4128 \times 10^3$	$8,6057 \times 10^5$	$3,6 \times 10^6$
$1,98 \times 10^6$	0,7455	1	$2,545 \times 10^3$	$6,4162 \times 10^5$	$2,6845 \times 10^6$
74,73	$2,815 \times 10^{-5}$	$3,774 \times 10^{-5}$	$9,604 \times 10^{-2}$	24,218	$1,0133 \times 10^2$
$3,086 \times 10^3$	$1,162 \times 10^{-3}$	$1,558 \times 10^{-3}$	3,9657	1×10^3	$4,184 \times 10^3$
$7,7816 \times 10^2$	$2,930 \times 10^{-4}$	$3,930 \times 10^{-4}$	1	$2,52 \times 10^2$	$1,055 \times 10^3$
3,086	$1,162 \times 10^{-6}$	$1,558 \times 10^{-6}$	$3,97 \times 10^{-3}$	1	4,184

Equivalentes de força

N	kgf	lbf	dina	onça
1	0,102	0,2248	1×10^5	3,597
9,807	1	2,2046	$9,8 \times 10^3$	35,274
4,448	0,454	1	$4,448 \times 10^5$	16
1×10^{-5}	$1,02 \times 10^{-6}$	$2,248 \times 10^{-6}$	1	$3,597 \times 10^{-5}$

Equivalentes de pressão

mmHg	inHg	bar	atm	kPa
1	$3,937 \times 10^{-2}$	$1,333 \times 10^{-3}$	$1,316 \times 10^{-3}$	0,1333
25,40	1	$3,387 \times 10^1$	$3,342 \times 10^{-2}$	3,387
750,06	29,53	1	0,9869	100,0
760,0	29,92	1,013	1	101,3
75,02	0,2954	$1,000 \times 10^{-2}$	$9,875 \times 10^{-3}$	1

* 1 atm pode também ser expresso em 14,7 psi (lbf/in²)

Escala de Temperatura

$$T_F = \frac{9}{5}T_C + 32 ; \quad T_C = \frac{5}{9}(T_F - 32); \quad T_R = T_F + 459,69; \quad T_K = T_C + 273,16$$

em que os subscritos F, C, R e K se referem a leituras nas escalas Fahrenheit, Celsius, Rankine e Kelvin, respectivamente.