

Conversion Tables - Umrechnungstabellen - Tables de conversion

Temperature

Fahrenheit	Celcius° @	Rankine°	Kelvin° (K)
0	-18	460	255
32	0	492	273
-460	-273	0	0

Degrees Fahrenheit = °F
 Degrees Celsius = 5/9 (°F-32)
 Degrees Kelvin = °C+273.15
 Degrees Rankine = °F+459,67

Lengths - Längen - Longueurs

	foot	inch	meter	centime	millimet	micron	angstro
foot	1	12	0.3048	30.48	304.800	3.048x1	3.048x1
inch	0.08333	1	0.0254	2.54	25.4	2.54x10	2.54x10
meter	3.28083	39.37	1	100	1000	1x10 ⁶	1x10 ¹⁰
centime	0.03281	0.3937	0.01	1	10	1x10 ⁴	1x10 ⁸
millimet	3.281x1	0.03937	0.001	0.1	1	1000	1x10 ⁷
micron	3.281x1	3.937x1	1x10 ⁻⁶	1x10 ⁻⁴	1x10 ⁻³	1	1x10 ⁴
angstro	3.281x1	3.937x1	1x10 ⁻¹⁰	1x10 ⁻⁸	1x10 ⁻⁷	1x10 ⁻⁴	1

Areas - Flächen - Surfaces

	ft ²	in ²	m ²	cm ²	mm ²
ft ²	1	144	0.09291	929.034	9.29x10 ⁴
in ²	6.944x10 ⁻³	1	6.451x10 ⁻⁴	6.4516	645.1625
m ²	10.7639	1550	1	1x10 ⁴	1x10 ⁶
cm ²	1.0764x10 ⁻³	0.155	1x10 ⁻⁴	1	100
mm ²	1.076x10 ⁻⁵	1.55x10 ⁻³	1x10 ⁻⁶	.01	1

Volume - Raummass - Volume (US gallon = 0,833 British Imperial gallon)

	meter ³	foot ³	US gallon	liter	quart	inch ³	cc
meter ³	1	35.31	264.2	1000	1056.8	61023	1x106
foot ³	28.317x	1	7.4822	28.317	29.92	1728	28.317x
US	3.785x1	0.1337	1	3.785	4	231	3785
liter	1x10 ⁻³	0.03531	0.2642	1	1.057	61.023	1000
quart	9.463x1	0.03342	0.25	0.9463	1	57.75	946.25
inch ³	1.638x1	5.787x1	43.29x1	0.01639	0.01732	1	16.387
cc	1x10 ⁻⁶	35.31x1	2.642x1	1x10 ⁻³	10.568x	0.06102	1

Weight - Gewicht - Poids

	pound	ounce	kilogram	gram	grain
pound	1	16	0.45356	453.592	7000
ounce	0.0625	1	0.02835	28.345	437.5
kilogram	2.205	35.27	1	1000	15.435x10 ³
gram	2.205x10 ⁻³	0.03527	0.001	1	15.435
grain	1.428x10 ⁻⁴	0.002285	64.8x10 ⁻⁶	0.0648	1

Density - Dichte - Densité

	pound/inch ³	pound/ft ³	pound/US gallon	kg/meter ³	gram/cm ³
pound/inch ³	1	1728	231	27.68x10 ³	27.6797
pound/ft ³	5.787x10 ⁻⁴	1	0.1337	16.018	0.01602
pound/US	4.33x10 ⁻³	7.48	1	119.8257	0.11983
kg/meter ³	3.613x10 ⁻⁵	0.06243	8.3445x10 ⁻³	1	0.001
gram/cm ³	0.03613	62.43	8.3445	1000	1

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Pressure - Druck - Pression

	Pa	Mpa	atm	bar	kg/cm ²	PSI
Pa	1	1x10 ⁻⁶	9.8692x10 ⁻⁶	1x10 ⁻⁵	1.0197x10 ⁻⁵	1.4504x10 ⁻⁴
Mpa	1x10 ⁻⁶	1	9.8692	10	10.1971	145.04
atm	101325	0.101325	1	1.01325	1.0332	14.696
bar	100000	0.1	0.98692	1	1.01971	14.504
kg/cm ²	98066.5	0.098067	0.96784	0.98067	1	14.223
PSI	6894.757	6.8948x10 ⁻³	0.06805	0.06895	0.07031	1

Flow rate - Durchfluss - Débit

	US gal/hr	US gal/min	cu ft/hr	cu ft/min	liters/hr	liters/min	cc/min
US gal/hr	1	0.01667	0.1337	2.228x10 ⁻³	3.7848	0.06308	63.08
US gal/min	60	1	8.022	0.1337	227.1	3.7848	3784.8
cu ft/hr	7.48	0.1247	1	0.01667	28.32	0.472	472
cu ft/min	448.8	7.48	60	1	1698.6	28.32	8.32x10 ³
liters/hr	0.26418	.403x10 ⁻³	0.03531	5.886x10 ⁻⁴	1	0.01667	16.67
liters/min	15.8502	64.18x10 ⁻³	2.11887	0.03531	60	1	1000
cc/min	0.01585	264.2x10 ⁻⁶	2.1187x10 ⁻³	35.3145x10 ⁻⁶	.06	0.001	1

Power - Leistung - Puissance

	kilowatt	US HP	HP/PS/CV	ft lbs/sec	ft lbs/hr	Btu/sec	Btu/hr
Kilowatt	1	1.341		738	2.653x10 ⁶	0.948	3413
US HP	0.7457	1		550	1.99x10 ⁶	0.707	25.44
HP/PS/CV			1				
ft lbs/sec	13.55x10 ⁻⁴	18.18x10 ⁻⁴		1	3600	12.84x10 ⁻⁴	4.62
ft lbs/hr	0.376x10 ⁻⁶	0.505x10 ⁻⁶		2.78x10 ⁻⁴	1	0.357x10 ⁻⁶	12.84x10 ⁻⁴
Btu/sec	1.055	1.416		778	2.802x10 ⁶	1	3600
Btu/hr	2.925x10 ⁻⁴	3.933x10 ⁻⁴		0.2163	778	2.778x10 ⁻⁴	1

Energy - Arbeit - Energie

	kilowatt hrs	US HP hrs	HP PS CV hrs	foot pounds	inch pounds	Btu	kilogram meters	joules N m
kilowatt/hrs	1	1.342		2.655x10 ⁶	31.86x10 ⁶	3415	367.1x10 ³	3.6x10 ⁶
US HP	0.7457	1		1.98x10 ⁶	23.76x10 ⁶	2546.5	273.546x10 ³	2.685x10 ⁶
HP PS CV/hrs			1					
foot pound	0.376x10 ⁻⁶	0.505x10 ⁻⁶		1	12	1.286x10 ⁻³	0.13826	1.3562
inch pounds	0.313x10 ⁻⁷	0.458x10 ⁻⁷		0.08333	1	0.107x10 ⁻³	11.522x10 ⁻³	0.11302
Btu	2.928x10 ⁻⁴	3.929x10 ⁻⁴		778	9336	1	107.5	1054.8
kg m	2.717x10 ⁻⁶	3.653x10 ⁻⁶		7.233	86.796	9.302x10 ⁻³	1	9.804
joules N m	2.774x10 ⁻⁷	3.7229x10 ⁻⁷		0.7373	8.8476	9.478x10 ⁻⁴	0.10194	1

Flow Velocity - Strömungsgeschwindigkeit - Vitesse de débit

	cm/sec	meter/sec	meter/min	kilometer/hr	feet/sec	feet/min	mile/hr
cm/sec	1	0.01	0.6	0.036	0.03281	1.9685	0.02237
meter/sec	100	1	60	3.6	3.281	196.85	2.2369
meter/min	1.667	0.01667	1	0.06	0.05468	3.281	0.03728
kilometer/hr	27.78	0.2778	16.67	1	0.91134	54.681	0.62137
feet/sec	30.48	0.3048	18.29	1.0973	1	60	0.68182
feet/min	0.508	5.08x10 ⁻³	0.348	0.01829	0.01667	1	0.01136
mile/hr	44.704	0.44704	26.82	1.6093	1.4667	88	1

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