



PETROL CHIMICA
SISTEMI PRODUTTIVI



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Made in Italy

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Conversion Factors for U.S./British and Metric Units

Quantity

<u>U.S./British Unit</u>		<u>S.I. Unit</u>
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Linear Measures

1 inch (in.)	=	25,4 mm
1 foot (ft) 1ft = 12 in.	=	0,3048 m
1 Yard (yd) = 3 ft	=	0,9144 m
1 English Mile	=	1,6093 km
0,039370 in.	=	1 millimeter (mm)
0,393701 in.	=	1 centimeter (cm)
3,280840 ft = 1,093613 yd	=	1 meter (m)
0,6214 English Mile	=	1 kilometer (km)

Square Measures

1 square inch (sq.in.)	=	645,160 sq.mm
1 square inch (sq.in.)	=	6,45160 sq.cm
1 square foot (sq.ft)	=	9,2903 sq.dm
1 square yard (sq.yd)	=	0,836127 sq.m
1 sq.ft = 144 sq.in.	=	0,092903 sq.m
0,001550 sq.in.	=	1 square millimeter (sq.mm)
0,155000 sq.in.	=	1 square centimeter (sq.cm)
10,763910 sq.ft	=	1 square meter (sq.m)
1,195990 sq.yd	=	1 square meter (sq.m)

Volume

1 cubic inch (cu.in.)	=	16,387064 cu.cm
1 cubic foot (cu.ft)	=	28,316847 cu.dm
1 ft = 1728 cu.in.	=	0,028317 cu.m
1 gallon (U.S.)	=	3,7854 cu.dm
1 gallon (U.K.)	=	4,546 cu.dm
1 barrel (U.S.)	=	158,987 cu.dm
0,061024 cu.in.	=	1 cubic centimeter (cu.cm)
0,035315 cu.ft	=	1 cubic decimeter (cu.dm)
35,31467 cu.ft	=	1 cubic meter (cu.m)



Umrechnungsfaktoren für U.S./Britische und SI-Einheiten

Quantity

U.S./British Unit		S.I. Unit
Weights		
1 ounce (oz)	=	28,3495 g
1 pound (lb) = 16 ounces	=	0,45359237 kg
1 long ton (l ton) = 2240 lb	=	1016,04706 kg
1 short ton (sh ton) = 2000 lb	=	907,185 kg
Weights per Length		
0,035274 oz	=	1 gramm (g)
2,204622 lb	=	1 kilogramm (kg)
0,984206 l ton	=	1 metric ton (t) = 1000 kg
1,10231 sh ton	=	1 metric ton (t)
1 lb / ft	=	1,488164 kg / m
1 lb / yd	=	0,496054 kg / m
0,671969 lb / ft = 2,015907 lb / yd	=	1 kg / m



Conversion Factors for U.S./British and Metric Units

<u>Quantity</u>	
<u>U.S./British Unit</u>	<u>S.I. Unit</u>
<u>Force *</u>	
1 pound-force (lbf)	= 4,448222 Newton (N)
0,224809 lbf	= 1 N
<u>Pressure / Stress *</u>	
1 pound - force per square inch (psi)	= 0,06895 bar
1 lbf / sq.in. (psi) $\hat{=}$ 1 lb / sq.in.	= 0,006895 N / sq.mm (MPa)
1 lbf / sq.ft	= 47,88 N / sq.mm
14,5038 lbf / sq.in.	= 1 bar
145,038 lbf / sq.in.	= 1 N / sq.mm (MPa)
<u>Density</u>	
1 lb / ft	= 0,016018 kg / dm
62,427952 lb / ft	= 1 kg / dm
<u>Torque *</u>	
1 foot pound - force ft - lbf $\hat{=}$ 1 ft - lb	= 1,3558 Nm
0,7376 ft - lbf	= 1 Nm
<u>Energy</u>	
1 ft - lbf $\hat{=}$ 1 ft - lb	= 1,355818 Joule (J)
0,737562 ft - lbf	= 1 J

Umrechnungsfaktoren für U.S./Britische und SI-Einheiten

<u>U.S./British Unit</u>	<u>Quantity</u>	<u>S.I. Unit</u>
<u>Speed</u>		
1 mile per hour (m.p.h.)	=	1,609344 km / h
1 foot per second (ft / s)	=	0,3048 m / s
0,621371 m.p.h.	=	1 km / h
3,28084 ft / s	=	1 m / s
<u>Power *</u>		
1 ft lbf / s	=	1,35582 W ; J / s ; Nm / s
1000 ft lbf / s = 1,8182 hp = 1,28182 btu / s	=	1,35582 kW
737,562 ft lbf / s	=	1 kW = 1,359621617 PS
		1 PS = 0,73549875 kW
<u>Flow Rate</u>		
1 barrel per day	=	0,158987 m / day
1 cubic foot per minute (ft / min)	=	0,02831685 m / min = 40,776192 m / day
<u>Temperature</u>		
Conversion formula °F	to	°C = 5 / 9 (°F - 32)
1 degree Fahrenheit (°F)	=	0,5556 °C
32 °F	=	0 °C
212 °F	=	100 °C

* Note: 1 pound-force (lbf) $\hat{=}$ 1 pound (lb)

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