

# TECHNICAL BULLETIN

BULLETIN#006 | REVISION#001

## CONVERSION FACTORS

Moly-Cop Tools™

### Frequently Used Conversion Factors

Enter

To Obtain

LENGTH	
cm	1.00000
m	1.00000
in	1.00000
ft	1.00000

cm	m	in	ft
1.00000	0.01000	0.39370	0.03281
100.00000	1.00000	39.37000	3.28100
2.54000	0.02540	1.00000	0.08333
30.48000	0.30480	12.00000	1.00000

AREA	
cm <sup>2</sup>	1.00000
m <sup>2</sup>	1.00000
in <sup>2</sup>	1.00000
ft <sup>2</sup>	1.00000

cm <sup>2</sup>	m <sup>2</sup>	in <sup>2</sup>	ft <sup>2</sup>
1.00000	0.00010	0.15500	0.00108
10,000.00000	1.00000	1,550.00000	10.76000
6.45200	0.00065	1.00000	0.00694
929.00000	0.09290	144.00000	1.00000

VOLUME	
cm <sup>3</sup>	1.00000
liters	1.00000
m <sup>3</sup>	1.00000
ft <sup>3</sup>	1.00000
gal	1.00000

cm <sup>3</sup>	liters	m <sup>3</sup>	ft <sup>3</sup>	gal
1.00000	0.00100	0.00000	0.00004	0.00026
1,000.00000	1.00000	0.00100	0.03532	0.26420
1,000,000.00000	1,000.00000	1.00000	35.31000	264.20000
28,320.58900	28.32000	0.02832	1.00000	7.48100
3,785.00000	3.78500	0.00379	0.13370	1.00000

MASS	
g	1.00000
kg	1.00000
lbm	1.00000
metric ton	1.00000
short ton	1.00000

g	kg	lbm	metric ton	short ton
1.00000	0.00100	0.00220	0.00000	0.00000
1,000.00000	1.00000	2.20459	0.00100	0.00110
453.60000	0.45360	1.00000	0.00045	0.00050
1,000,000.00000	1,000.00000	2,204.59000	1.00000	1.10229
907,200.00000	907.20000	2,000.00000	0.90720	1.00000

FORCE	
newton	1.00000
dyne	1.00000
kgf	1.00000
lbf	1.00000

newton	dyne	kgf	lbf
1.00000	100,000.00000	0.10197	0.22480
0.00001	1.00000	0.00000	0.00000
9.80700	980,700.00000	1.00000	2.20459
4.44840	444,840.00000	0.45360	1.00000

LINEAR VELOCITY	
cm/sec	1.00000
ft/sec	1.00000
ft/min	1.00000

cm/sec	ft/sec	ft/min
1.00000	0.03281	1.96800
30.47850	1.00000	60.00000
0.50813	0.01667	1.00000

ANGULAR VELOCITY	
rpm	1.00000
rad/sec	1.00000

rpm	rad/sec
1.00000	0.10472
9.54930	1.00000

VOLUMETRIC FLOW	
liters/sec	1.00000
m <sup>3</sup> /hr	1.00000
gal/min	1.00000
ft <sup>3</sup> /sec	1.00000
ft <sup>3</sup> /min	1.00000

liters/sec	m <sup>3</sup> /hr	gal/min	ft <sup>3</sup> /sec	ft <sup>3</sup> /min
1.00000	3.60000	15.85000	0.03532	2.11920
0.27778	1.00000	4.40300	0.00981	0.58864
0.06309	0.22710	1.00000	0.00223	0.13367
28.31000	101.91600	448.80000	1.00000	60.00000
0.47190	1.69884	7.48100	0.01667	1.00000

MASS FLOW	
kg/min	1.00000
metric ton/hr	1.00000
lb/min	1.00000
short ton/hr	1.00000

kg/min	metric ton/hr	lb/min	short ton/hr
1.00000	0.06000	2.20459	0.06614
16.66667	1.00000	36.74309	1.10229
0.45360	0.02722	1.00000	0.03000
15.12000	0.90720	33.33333	1.00000

# CONVERSION FACTORS

DENSITY		g/cm <sup>3</sup>	metric ton/m <sup>3</sup>	lb/ft <sup>3</sup>		
g/cm <sup>3</sup>	1.00000	1.00000	1.00000	62.40000		
metric ton/m <sup>3</sup>	1.00000	1.00000	1.00000	62.40000		
lb/ft <sup>3</sup>	1.00000	0.01603	0.01603	1.00000		

  

ENERGY		kWh	hp hr	joule	kgf m	ft lbf
kWh	1.00000	1.00000	1.34100	3,600,000.00000	367,000.00000	2,660,000.00000
hp hr	1.00000	0.74571	1.00000	2,680,000.00000	274,000.00000	1,980,000.00000
joule	1.00000	0.00000	0.00000	1.00000	0.10197	0.73746
kgf m	1.00000	0.00000	0.00000	9.80700	1.00000	7.23066
ft lbf	1.00000	0.00000	0.00000	1.35600	0.13830	1.00000

  

SPECIFIC ENERGY		kWh/mton	kWh/ston	hphr/mton	hphr/ston	
kWh/mton	1.00000	1.00000	0.90720	1.34100	1.21655	
kWh/ston	1.00000	1.10229	1.00000	1.47820	1.34100	
hphr/mton	1.00000	0.74571	0.67650	1.00000	0.90720	
hphr/ston	1.00000	0.82200	0.74571	1.10229	1.00000	

  

POWER		kW	hp			
kW	1.00000	1.00000	1.34100			
hp	1.00000	0.74571	1.00000			

  

PRESSURE		kgf/cm <sup>2</sup>	psi	m H <sub>2</sub> O	mm Hg	kPa
kgf/cm <sup>2</sup>	1.0000	1.00000	14.22000	10.00000	735.55920	98.06652
psi	1.0000	0.07032	1.00000	0.70323	51.71493	6.89476
m H <sub>2</sub> O	1.0000	0.10000	1.42200	1.00000	73.53863	9.80392
mm Hg	1.0000	0.00136	0.01934	0.01360	1.00000	0.13333
kPa	1.0000	0.01020	0.14504	0.10200	7.50000	1.00000

  

TEMPERATURE		°C	°F			
°C	20.00	20.00	68.00			
°F	68.00	20.00	68.00			