

ChangeUnits: List of Base Units by Group

Angle			
1	rad	=	1 rad
		=	57.2958 deg
		=	0.159155 rev
Angular Velocity			
1	rad / s	=	0.159155 hz
		=	0.159155 Hz
		=	9.5493 rpm
		=	0.159155 rps
Area/Permeability			
1	m^2	=	0.000247105 acre
		=	0.0001 hectare
		=	1.01325e+012 darcy
		=	1.01325e+012 D
		=	1.01325e+015 millidarcy
		=	1.01325e+015 mD
Electrical Capacitance			
1	s^2 C^2 / kg m^2	=	1 farad
		=	1 F
		=	1000 millifarad
		=	1000 mF
		=	1e+006 microfarad
		=	1e+009 nanofarad
Electrical charge			
1	C	=	1 coulomb
		=	1 C
Electrical Current			
1	C / s	=	1 ampere
		=	1 amp
		=	1 A
		=	1000 milliamp
		=	1000 mA
		=	1e+006 microamp
Electrical Potential			
1	kg m^2 / s^2 C	=	1 volt
		=	1 V
		=	1000 millivolt
		=	1000 mV
		=	1e+006 microvolt
Electrical Resistance			
1	kg m^2 / s C^2	=	1 ohm
Electromagnetic Inductance			
1	kg m^2 / C^2	=	1 henry
		=	1 H
Energy			
1	kg m^2 / s^2	=	1 J
		=	1000 mJ
		=	0.001 kJ
		=	1e-006 MJ
		=	1e-009 GJ
		=	0.238846 cal
		=	0.000238846 kcal
		=	0.000947817 btu
		=	0.000947817 Btu
		=	1e+007 erg
		=	6.24151e+018 eV
Force			
1	kg m / s^2	=	1 N
		=	0.001 kN
		=	100000 dyne
		=	0.224809 lbf
		=	3.59694 ozf
		=	0.000224809 kip
		=	0.101972 kgf
Length			
1	m	=	1 m
		=	100 cm
		=	1000 mm
		=	1e+006 micron
		=	1e+009 nm
		=	1e+010 angstrom
		=	0.001 km
		=	39.3701 in
		=	39.3701 inch
		=	39370.1 mil
		=	3.28084 ft
		=	3.28084 feet
		=	1.09361 yard
		=	1.09361 yd
		=	0.000621371 mi
		=	0.000621371 mile
		=	0.000179986 Nmile
		=	0.000179986 league
		=	2.18722 cubit
		=	0.546807 fathom
		=	1.05702e-016 lightyear
		=	1.65076e+006 KrWavelength
Magnetic Field Strength			
1	C / s m	=	0.0125664 oersted
		=	0.0125664 Oe
Magnetic Flux			
1	kg m^2 / s C	=	1 weber
		=	1 Wb
		=	1e+008 maxwell
		=	1e+008 Mx
Magnetic Flux Density			
1	kg / s C	=	1 tesla
		=	1 T
		=	1000 mT
		=	10000 gauss
		=	10000 G
Mass			
1	kg	=	1 kg
		=	0.001 Mg
		=	1000 g
		=	1e+006 mg

		=	0.0685218 slug
		=	0.000984207 ton
		=	0.001 tonne
		=	35.274 ozm
		=	2.20462 lbm
		=	5000 carat
		=	15432.4 grain
		=	0.157473 stone
Mole			
1	mol	=	1 mol
		=	0.001 kmol
Power			
1	kg m^2 / s^3	=	1 W
		=	1 Watt
		=	1 watt
		=	1000 mW
		=	0.001 kW
		=	1e-006 MW
		=	1e-009 GW
		=	0.00134102 hp
Pressure/Stress			
1	kg / s^2 m	=	1 Pa
		=	1000 mPa
		=	1000 mpa
		=	0.001 kPa
		=	0.001 kpa
		=	1e-006 MPa
		=	1e-006 Mpa
		=	1e-009 GPa
		=	1e-009 Gpa
		=	0.000145038 psi
		=	1.45038e-007 ksi
		=	1.45038e-010 Mpsi
		=	1.45038e-013 Gpsi
		=	9.86923e-006 atm
		=	1e-005 bar
		=	0.01 millibar
		=	0.00750062 mmHg
		=	0.000750062 cmHg
		=	0.000296134 inHg
		=	0.00750062 torr
		=	0.00750062 Torr
		=	0.0101974 cmWater
		=	0.00401865 inWater
Temperature			
1	degK	=	-272.15 degC
		=	-457.87 degF
		=	1 degK
		=	1.8 degR
		=	1 degCdiff
		=	1.8 degFdiff
		=	1 degKdiff
		=	1.8 degRdiff
Time			
1	s	=	1 s
		=	1 sec
		=	1000 ms
		=	1000 msec
		=	0.0166667 min
		=	0.000277778 h
		=	0.000277778 hr
		=	0.000277778 hour
		=	1.15741e-005 day
		=	1.65344e-006 week
		=	3.16888e-008 yr
		=	3.16888e-008 year
Velocity			
1	m / s	=	2.23694 mph
		=	3.6 kph
		=	1.94384 knot
		=	3.28084 fps
		=	196.85 fpm
Viscosity (Dynamic)			
1	kg / s m	=	10 poise
		=	1000 centipoise
		=	1000 cp
		=	10000 millipoise
		=	1 poiseuille
		=	0.000145038 reyn
Viscosity (Kinematic)			
1	m^2 / s	=	1e+006 centistokes
		=	10 stokes
Volume			
1	m^3	=	264.172 gallon
		=	264.172 gal
		=	1000 liter
		=	1000 l
		=	1000 L
		=	1e+006 ml
		=	1e+006 cc
		=	6.28981 barrel
		=	423.776 boardfoot
		=	28.3776 bushel
		=	0.275896 cord
		=	4226.75 cup
		=	33814 fluidounce
		=	113.51 peck
		=	2113.38 pint
		=	1056.69 quart
		=	1 stere
		=	67628 Tbs
		=	202884 tsp

ChangeUnits: Alphabetical Listing of Base Units

1	A	=	1	C / s
1	acre	=	4046.86	m^2
1	amp	=	1	C / s
1	ampere	=	1	C / s
1	angstrom	=	1e-010	m
1	atm	=	101325	kg / s^2 m
1	bar	=	100000	kg / s^2 m
1	barrel	=	0.158987	m^3
1	boardfoot	=	0.00235974	m^3
1	Btu	=	1055.06	kg m^2 / s^2
1	btu	=	1055.06	kg m^2 / s^2
1	bushel	=	0.0352391	m^3
1	C	=	1	C
1	cal	=	4.1868	kg m^2 / s^2
1	carat	=	0.0002	kg
1	cc	=	1e-006	m^3
1	centipoise	=	0.001	kg / s m
1	centistokes	=	1e-006	m^2 / s
1	cm	=	0.01	m
1	cmWater	=	98.0638	kg / s^2 m
1	cmHg	=	1333.22	kg / s^2 m
1	cord	=	3.62456	m^3
1	coulomb	=	1	C
1	cp	=	0.001	kg / s m
1	cubit	=	0.457201	m
1	cup	=	0.000236588	m^3
1	D	=	9.8692e-013	m^2
1	darcy	=	9.8692e-013	m^2
1	day	=	86400	s
1	deg	=	0.0174533	rad
1	degC	=	274.15	degK
1	degCdiff	=	1	degKdiff
1	degF	=	255.928	degK
1	degFdiff	=	0.555556	degKdiff
1	degK	=	1	degK
1	degKdiff	=	1	degKdiff
1	degR	=	0.555556	degK
1	degRdiff	=	0.555556	degKdiff
1	dyne	=	1e-005	kg m / s^2
1	erg	=	1e-007	kg m^2 / s^2
1	eV	=	1.60218e-019	kg m^2 / s^2
1	F	=	1	s^2 C^2 / kg m^2
1	farad	=	1	s^2 C^2 / kg m^2
1	fathom	=	1.8288	m
1	feet	=	0.3048	m
1	fluidounce	=	2.95735e-005	m^3
1	fpm	=	0.00508	m / s
1	fps	=	0.3048	m / s
1	ft	=	0.3048	m
1	G	=	0.0001	kg / s C
1	g	=	0.001	kg
1	gal	=	0.00378541	m^3
1	gallon	=	0.00378541	m^3
1	gauss	=	0.0001	kg / s C
1	GJ	=	1e+009	kg m^2 / s^2
1	GPa	=	1e+009	kg / s^2 m
1	Gpa	=	1e+009	kg / s^2 m
1	Gpsi	=	6.89476e+012	kg / s^2 m
1	grain	=	6.47989e-005	kg
1	GW	=	1e+009	kg m^2 / s^3
1	H	=	1	kg m^2 / C^2
1	h	=	3600	s
1	hectare	=	10000	m^2
1	henry	=	1	kg m^2 / C^2
1	hour	=	3600	s
1	hp	=	745.7	kg m^2 / s^3
1	hr	=	3600	s
1	Hz	=	6.28319	rad / s
1	hz	=	6.28319	rad / s
1	in	=	0.0254	m
1	inch	=	0.0254	m
1	inWater	=	248.84	kg / s^2 m
1	inHg	=	3376.85	kg / s^2 m
1	J	=	1	kg m^2 / s^2
1	kcal	=	4186.8	kg m^2 / s^2
1	kg	=	1	kg
1	kgf	=	9.80665	kg m / s^2
1	kip	=	4448.22	kg m / s^2
1	kJ	=	1000	kg m^2 / s^2
1	km	=	1000	m
1	kmol	=	1000	mol
1	kN	=	1000	kg m / s^2
1	knot	=	0.514444	m / s
1	kPa	=	1000	kg / s^2 m
1	kpa	=	1000	kg / s^2 m
1	kph	=	0.277778	m / s
1	KrWavelength	=	6.0578e-007	m
1	ksi	=	6.89476e+006	kg / s^2 m
1	kW	=	1000	kg m^2 / s^3
1	L	=	0.001	m^3

1	l	=	0.001	m^3
1	lbf	=	4.44822	kg m / s^2
1	lbm	=	0.453592	kg
1	league	=	5556	m
1	lightyear	=	9.46055e+015	m
1	liter	=	0.001	m^3
1	m	=	1	m
1	mA	=	0.001	C / s
1	maxwell	=	1e-008	kg m^2 / s C
1	mD	=	9.8692e-016	m^2
1	mF	=	0.001	s^2 C^2 / kg m^2
1	Mg	=	1000	kg
1	mg	=	1e-006	kg
1	mi	=	1609.34	m
1	microamp	=	1e-006	C / s
1	microfarad	=	1e-006	s^2 C^2 / kg m^2
1	micron	=	1e-006	m
1	microvolt	=	1e-006	kg m^2 / s^2 C
1	mil	=	2.54e-005	m
1	mile	=	1609.34	m
1	milliamp	=	0.001	C / s
1	millibar	=	100	kg / s^2 m
1	millidarcy	=	9.8692e-016	m^2
1	millifarad	=	0.001	s^2 C^2 / kg m^2
1	millipoise	=	0.0001	kg / s m
1	millivolt	=	0.001	kg m^2 / s^2 C
1	min	=	60	s
1	MJ	=	1e+006	kg m^2 / s^2
1	mJ	=	0.001	kg m^2 / s^2
1	ml	=	1e-006	m^3
1	mm	=	0.001	m
1	mmHg	=	133.322	kg / s^2 m
1	mol	=	1	mol
1	MPa	=	1e+006	kg / s^2 m
1	Mpa	=	1e+006	kg / s^2 m
1	mPa	=	0.001	kg / s^2 m
1	mpa	=	0.001	kg / s^2 m
1	mph	=	0.44704	m / s
1	Mpsi	=	6.89476e+009	kg / s^2 m
1	ms	=	0.001	s
1	msec	=	0.001	s
1	mT	=	0.001	kg / s C
1	mV	=	0.001	kg m^2 / s^2 C
1	MW	=	1e+006	kg m^2 / s^3
1	mW	=	0.001	kg m^2 / s^3
1	Mx	=	1e-008	kg m^2 / s C
1	N	=	1	kg m / s^2
1	nanofarad	=	1e-009	s^2 C^2 / kg m^2
1	nm	=	1e-009	m
1	Nmile	=	5556	m
1	Oe	=	79.5775	C / s m
1	oersted	=	79.5775	C / s m
1	ohm	=	1	kg m^2 / s C^2
1	ozf	=	0.278014	kg m / s^2
1	ozm	=	0.0283495	kg
1	Pa	=	1	kg / s^2 m
1	peck	=	0.00880977	m^3
1	pint	=	0.000473176	m^3
1	poise	=	0.1	kg / s m
1	poiseuille	=	1	kg / s m
1	psi	=	6894.76	kg / s^2 m
1	quart	=	0.000946353	m^3
1	rad	=	1	rad
1	rev	=	6.28319	rad
1	reyn	=	6894.76	kg / s m
1	rpm	=	0.10472	rad / s
1	rps	=	6.28319	rad / s
1	s	=	1	s
1	sec	=	1	s
1	slug	=	14.5939	kg
1	stere	=	1	m^3
1	stokes	=	0.1	m^2 / s
1	stone	=	6.35029	kg
1	T	=	1	kg / s C
1	Tbs	=	1.47868e-005	m^3
1	tesla	=	1	kg / s C
1	ton	=	1016.05	kg
1	tonne	=	1000	kg
1	Torr	=	133.322	kg / s^2 m
1	torr	=	133.322	kg / s^2 m
1	tsp	=	4.92892e-006	m^3
1	V	=	1	kg m^2 / s^2 C
1	volt	=	1	kg m^2 / s^2 C
1	W	=	1	kg m^2 / s^3
1	Watt	=	1	kg m^2 / s^3
1	watt	=	1	kg m^2 / s^3
1	Wb	=	1	kg m^2 / s C
1	weber	=	1	kg m^2 / s C
1	week	=	604800	s
1	yard	=	0.9144	m
1	yd	=	0.9144	m
1	year	=	3.15569e+007	s
1	yr	=	3.15569e+007	s