





1969–2013

Servet BASOL Müzesi

ABOUT THIS PAN AM CLIPPER CARGO BOOKLET...

We at Pan American World Airways thought you would find this booklet both useful and interesting, even if you do not use all 900 conversion factors every day.

Charges for air freight are made on a "per kilogram" basis except that from within the USA the calculation may be made on either a "per kilogram" and/or a "per pound" basis. Fractions of a kg. or a lb. are rounded up to the next higher half kilogram or half pound.

Here are the rules about Chargeable Weight and Volume Rate, as published in The Air Cargo Tariff.

5.8.2. CHARGEABLE WEIGHT

The chargeable weight is the actual gross weight or volume-weight, whichever is higher provided that where a lower charge for a higher minimum weight applies, the lower shall be deemed as chargeable weight.

Example: A consignment weighing 36 kg. is to be carried from New York to London. The under 40 kg. general cargo rate is \$2.00/cbm. 35 kg. x \$2.00 = USD 70.00. The 40 kg. general cargo rate is \$2.00/cbm.

35 kg. x \$2.00 = USD 70.00. The maximum charge per kg. for 40 kg. (20.0 cents per kg.) is less than the under 40 kg. rate, hence the actual weight of the consignment. Therefore, the charge of USD 70.00 will apply to this consignment.

5.8.3. VOLUME WEIGHT

The volume of a consignment is established by applying the greater width, the greatest depth and the greatest height in the consignment or in packages. Consignments the estimated dimensions of which average more than 400 cubic centimeters (one cubic inch per kilogram) (160 cu. in. per pound), shall be charged on volume basis.

Examples:

For transportation of iron rods from India to the United States it is established that 1000 cubic cm. equals 1 kg. applies.

1. Centimeters-cubic-meters.

In using linear measurements to obtain the volume of a half or larger fraction of a centimeter shall be rounded up to the next higher whole centimeter; a smaller fraction to the next lower whole centimeter.

Example: The dimensions of a consignment being 162 x 156.4 x 141.4 cm. are rounded to 162 x 156 x 141 cm. The volume weight is established by dividing the volume in cubic centimeters by 6000, the resulting equivalent in kilograms being rounded up to the next higher sub or half kilograms.

Example: 162 x 156 x 141 cm. give a volume of 3,663,382 cubic centimeters divided by 6000 give 603.992 kg. rounded up to 604 kg.

2. Inches-cubic-inches.

In using linear measurements to obtain the volume a half or larger fraction of an inch shall be rounded up to the next higher whole inch, a smaller fraction shall be rounded down to the next lower whole inch.

Example: The dimensions of a consignment being 63-7/8 x 61-1/4 x 66-3/8 inches are rounded up to 64 x 62 x 67 inches. The volume weight is established by dividing the volume in cubic inches by 360.

Example: 64 x 62 x 67 give a volume of 21,4720 cubic inches that divided by 360 give 58.980 kg. rounded up to 587 kg.

3. Inches-Pounds.

Having used linear measurements to obtain the volume as indicated in 2. above, the volume weight in pounds is obtained by dividing the volume in cubic inches by 166.

Example: 64 x 62 x 67 give a volume of 21,4720 cubic inches that divided by 166 give 1293.493 lbs. rounded up to 1294 lbs.

Reprinted from Section 3.8 of the IATA Rules, 1969. Refer to latest issue of this section for any changes.

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TO CONVERT	MULTIPLY BY	TO OBTAIN
ampères	1×10^3	amperes
aboulombs	2.998×10^{-10}	statcoulombs
abrads	1×10^2	farads
aberads	1×10^{-8}	microfarads
abhenries	1×10^{-1}	henries
abhenries	1×10^{-4}	millihenries
abohms	1×10^{-8}	ohms
abohms	1×10^{-11}	megohms
abvolts	1×10^3	volts
acres	1×10^4	sq. chains (square)
acres	1.60×10^4	rods
acres	1×10^6	sq. links
acres	4.047×10^{-1}	hectares or sq. hectometers
acres	4.35×10^4	sq. ft.
acres	4.047×10^3	sq. meters
acres	1.562×10^{-6}	sq. miles
acres	4.840×10^3	sq. yards
acre-feet	4.356×10^4	cu. feet
acre-feet	3.259×10^6	gallons
ampères (sq. cm.)	6.452	amps/sq. in.
ampères (sq. cm.)	1×10^6	amps/sq. meter
ampères (sq. in.)	1.560×10^{-1}	amps/sq. cm.
ampères (sq. in.)	1.560×10^6	amps/sq. meter
ampères (sq. meter)	1.0×10^4	amps/sq. cm.
ampères (sq. meter)	6.452×10^{-6}	amps/sq. in.
ampere-hours	3.600×10^3	coulombs
ampere-hours	3.731×10^{-4}	headers
ampere-turns	1.257	gilberts
ampere-turns/cm.	2.540	amp-turns/in.
ampere-turns/cm.	1×10^2	amp-turns/meter
ampere-turns/in.	3.937×10^{-1}	amp-turns/cm.
ampere-turns/in.	3.937×10^1	amp-turns/meter
ampere-turns/meter	4.950×10^{-1}	gilberts/cm.
ampere-turns/meter	1×10^{-2}	amp-turns/cm.
ampere-turns/meter	2.54×10^{-1}	amp-turns/in.
angstrom unit	3.937×10^{-1}	inches
angstrom unit	1×10^{-10}	meters
angstrom unit	1×10^{-4}	miles or (mi.)
ares	2.471×10^{-4}	acres (U.S.)
ares	1.196×10^6	sq. yards
ares	1×10^9	sq. meters
astronomical unit	1.495×10^4	kilometers
atmospheres	7.346×10^{-2}	tons/sq. in.
atmospheres	1.058	tons/sq. foot
atmospheres	7.6×10^1	cms. of mercury (at 0°C.)
atmospheres	8.39×10^1	ft. of water (at 4°C.)
atmospheres	2.992×10^1	ft. of mercury (at 0°C.)
atmospheres	7.6×10^{-1}	meters of mercury (at 0°C.)
atmospheres	7.6×10^4	millimeters of mercury (at 0°C.)
atmospheres	1.0003	kg./sq. cm.
atmospheres	1.0333×10^4	kg./sq. meter
atmospheres	1.47×10^1	pounds/sq. in.
B		
barrels (u.s., dry)	3.281	bushels
barrels (u.s., dry)	7.056×10^4	cu. inches
barrels (u.s., dry)	1.05×10^1	quarts (dry)
barrels (u.s., liquid)	3.15×10^1	gallons
barrels (oil)	4.2×10^1	gallons (oil)
bars	9.869×10^1	atmospheres
bars	1×10^4	dynes/sq. cm.

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bars	1.020×10^4	kgs./sq. meter	centimeters of mercury	2.785×10^1	pounds/sq. ft.
bars	2.089×10^3	pounds/sq. ft.	centimeters of mercury	1.934×10^{-1}	pounds/sq. in.
bars	1.45×10^1	dynes/sq. cm.	centimeters/sec.	1.969	feet/min.
barye	1.00	meters	centimeters/sec.	3.281×10^{-2}	feet/sec.
bolt (u.s., cloth)	3.6576×10^1	liter-atmospheres	centimeters/sec.	3.6×10^{-2}	kilometers/hr.
btu	1.0409×10^1	ergs	centimeters/sec.	1.943×10^{-1}	feet
btu	1.0550×10^{10}	foot-pounds	centimeters/sec.	6.0×10^{-1}	meters/min.
btu	7.7816×10^2	gram-calories	centimeters/sec.	2.237×10^{-1}	miles/hr.
btu	2.52×10^2	horsepower-hours	centimeters/sec.	3.728×10^{-4}	miles/min.
btu	3.927×10^{-4}	joules	centimeters/sec./sec.	3.281×10^{-2}	ft./sec./sec.
btu	1.055×10^1	kilogram-calories	centimeters/sec./sec.	3.6×10^{-2}	kms./hr./sec.
btu	2.52×10^{-1}	kilogrammeters	centimeters/sec./sec.	1.0×10^{-2}	meters/sec./sec.
btu	1.0758×10^1	kilowatt-hours	centipoise	1.0×10^{-2}	miles/hr./sec.
btu	2.928×10^{-4}	ft.-pounds/sec.	centipoise	6.72×10^{-4}	gr./cm.-sec.
btu/hr.	2.162×10^{-1}	watts	centipoise	2.4	pound/ft.-sec.
btu/hr.	7.0×10^{-2}	horsepower	chains (gunters)	7.92×10^4	pound/ft.-hr.
btu/hr.	3.929×10^{-4}	watts	chains (gunters)	2.012×10^1	inches
btu/hr.	2.931×10^{-1}	cubic ft.	chains (gunters)	2.2×10^1	meters
btu/min.	1.296×10^1	cubic in.	circular mils	5.067×10^{-4}	yards
btu/min.	2.356×10^{-2}	cubic meters	circular mils	7.854×10^{-1}	sq. cm.
btu/min.	1.757×10^{-2}	liters	circular mils	7.854×10^{-7}	sq. mils
btu/min.	1.757×10^1	pecks	circumference	6.283	sq. inches
btu/sq. ft./min.	1.22×10^{-1}	pints (dry)	circumference	8.0	radians
bucket (br. dry)	1.8184×10^4	quarts (dry)	cord	1.6×10^1	cord ft.
bushels	1.2445	quarts (dry)	coulombs	2.998×10^4	statcoulombs
bushels	2.1504×10^1		coulombs	1.036×10^{-5}	faradays
bushels	3.524×10^{-2}		coulombs/sq. cm.	6.452	coulombs/sq. in.
bushels	3.524×10^1		coulombs/sq. cm.	1.0×10^4	coulombs/sq. meter
bushels	4.0		coulombs/sq. in.	1.550×10^1	coulombs/sq. cm.
bushels	6.4×10^1		coulombs/sq. in.	1.550×10^4	coulombs/sq. meter
bushels	3.2×10^1		coulombs/sq. meter	1.0×10^{-4}	coulombs/sq. cm.
			coulombs/sq. meter	6.452×10^{-4}	coulombs/sq. in.
			cubic centimeters	3.531×10^{-5}	cubic ft.
calories, gram (mean)	3.9685×10^{-3}	btu (mean)	cubic centimeters	6.102×10^{-2}	cubic in.
candle/sq. cm.	3.146	lamberts	cubic centimeters	1.0×10^{-4}	cubic meters
candle/sq. in.	4.870×10^{-1}	lamberts	cubic centimeters	1.308×10^{-4}	cubic yards
centares	1.0	sq. meters	cubic centimeters	2.642×10^{-4}	gallons (u.s. liquid)
centigrade(degrees)	$(^{\circ}C \times 9/5) + 32$	fahrenheit(degrees)	cubic centimeters	1.0×10^{-3}	liters
centigrade(degrees)	$^{\circ}C + 273.18$	kelvin (degrees)	cubic centimeters	2.113×10^{-3}	pints (u.s. liquid)
centigrams	1×10^{-2}	grams	cubic centimeters	1.057×10^{-3}	quarts (u.s. liquid)
centiliters	3.382×10^{-1}	ounce (fluid) u.s.	cubic centimeters	8.036×10^{-1}	bushels (dry)
centiliters	6.103×10^{-1}	cubic in.	cubic feet	2.8320×10^4	cu. cms.
centiliters	2.705	drams	cubic feet	1.728×10^3	cu. inches
centiliters	1.0×10^{-2}	liters	cubic feet	2.832×10^{-2}	cu. meters
centimeters	3.281×10^{-2}	feet	cubic feet	3.704×10^{-2}	cu. yards
centimeters	3.937×10^{-1}	inches	cubic feet	7.48052	gallons (u.s. liquid)
centimeters	1×10^{-3}	kilometers	cubic feet	2.832×10^1	liters
centimeters	1×10^{-2}	meters	cubic feet	5.984×10^1	pints (u.s. liquid)
centimeters	6.214×10^{-6}	miles	cubic feet	2.992×10^1	quarts (u.s. liquid)
centimeters	1×10^1	millimeters	cubic feet/min.	4.72×10^1	cu. cms./sec.
centimeters	3.937×10^2	mls	cubic feet/min.	1.247×10^{-1}	gallons/sec.
centimeters	1.094×10^{-1}	yards	cubic feet/min.	4.720×10^{-1}	liters/sec.
centimeters	1×10^4	microns	cubic feet/sec.	6.243×10^1	pounds water/min.
centimeters	1×10^8	angstrom units	cubic feet/sec.	6.46317×10^{-1}	million gals./day
centimeter-dynes	1.020×10^{-3}	cn-grams	cubic feet/sec.	4.49831×10^2	gallons/min.
centimeter-dynes	1.020×10^{-4}	meter-kgs.	cubic inches	1.639×10^1	cu. cms.
centimeter-dynes	7.376×10^{-8}	pound-ft.	cubic inches	5.787×10^{-4}	cu. ft.
centimeter-grams	9.807×10^2	cm.-dynes	cubic inches	1.639×10^{-3}	cu. meters
centimeter-grams	1×10^{-1}	meter-kgs.	cubic inches	2.143×10^{-3}	cu. yards
centimeter-grams	7.233×10^{-5}	pound-ft.	cubic inches	4.329×10^{-3}	gallons
centimeters of mercury	1.316×10^{-2}	atmospheres	cubic inches	1.639×10^{-2}	liters
centimeters of mercury	4.461×10^{-1}	ft. of water	cubic inches	3.463×10^{-2}	pints (u.s. liquid)
centimeters of mercury	1.36×10^1	kgs./sq. meter	cubic inches	1.732×10^{-2}	quarts (u.s. liquid)
			cubic meters	2.838×10^1	bushels (dry)
			cubic meters	1.0×10^4	cu. cms.
			cubic meters	3.531×10^1	cu. ft.



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cubic meters	6.1023×10^4	cu. inches	ergs	1.0×10^{-4}	joules
cubic meters	1.308	cu. yards	ergs	2.389×10^{-11}	kg.-calories
cubic meters	2.649×10^4	gallons (u.s. liquid)	ergs	1.020×10^{-4}	kg.-meters
cubic meters	1.0×10^4	liters	ergs	2.773×10^{-10}	kilowatt-hrs.
cubic meters	2.113×10^4	pints (u.s. liquid)	ergs	2.773×10^{-10}	watt-hrs.
cubic meters	1.057×10^4	quarts (u.s. liquid)	ergs/sec.	5.069×10^{-9}	btu/min.
cubic yards	7.646×10^4	cu. cms.	ergs/sec.	4.426×10^{-9}	ft.-lbs./min.
cubic yards	2.7×10^4	cu. ft.	ergs/sec.	7.3756×10^{-4}	ft.-lbs./sec.
cubic yards	4.6695×10^4	cu. inches	ergs/sec.	1.341×10^{-6}	horsepower
cubic yards	7.646×10^4	cu. meters	ergs/sec.	1.433×10^{-1}	kg.-calories/min.
cubic yards	2.02×10^4	gallons (u.s. liquid)	ergs/sec.	1.0×10^{-10}	kilowatts
cubic yards	7.646×10^4	liters			
cubic yards	1.6159×10^4	pints (u.s. liquid)			
cubic yards	8.079×10^4	quarts (u.s. liquid)			
cubic yards/min.	4.5×10^{-1}	cubic ft./sec.			
cubic yards/min.	3.367	gallons/sec.			
cubic yards/min.	1.274×10^1	liters/sec.			
B					
daltons	1.650×10^{-4}	grams	farads	1.0×10^4	microfarads
days	8.64×10^4	seconds	faraday/sec.	9.65×10^4	ampere (absolute)
days	1.44×10^4	minutes	faradays	2.68×10^4	ampere-hours
days	2.4×10^3	hours	faradays	9.640×10^4	coulombs
decigrams	1.0×10^{-4}	grams	fathoms	6.0	meters
deciters	1.0×10^{-1}	grams	fathoms		feet
decimeters	1.0×10^{-2}	meters	feet	3.048×10^1	centimeters
degrees (angle)	1.111×10^{-4}	quadrants	feet	3.048×10^{-4}	kilometers
degrees (angle)	1.745×10^{-4}	radians	feet	3.048×10^{-1}	meters
degrees (angle)	3.6×10^{-4}	seconds	feet	1.645×10^4	miles (naut.)
degrees/sec.	1.745×10^{-4}	radians/sec.	feet	1.894×10^{-4}	miles (stat.)
degrees/sec.	1.667×10^{-1}	revolutions/min.	feet	3.048×10^1	millimeters
degrees/sec.	2.778×10^{-4}	revolutions/sec.	feet	1.2×10^4	mils
dekagrams	1.0×10^1	grams	feet of water	2.95×10^4	atmospheres
dekameters	1.0×10^2	liters	feet of water	8.828×10^{-1}	in. of mercury
dekameters	1.0×10^3	meters	feet of water	3.048×10^{-3}	kg./sq. cm.
drams (apoth. or Troy)	1.3714×10^{-4}	ounces (avdp.)	feet of water	3.048×10^1	kg./sq. meter
drams (apoth. or Troy)	1.25×10^{-4}	ounces (Troy)	feet of water	6.243×10^1	pounds/sq. ft.
drams (u.s. fluid, or apoth.)	3.6967	cubic cms.	feet of water	4.936×10^{-1}	seconds/sq. in.
drams	1.7718	grams	feet/min.	5.080×10^{-1}	cms./sec.
drams	2.7344×10^4	grains	feet/min.	1.667×10^4	feet/sec.
drams	6.25×10^{-4}	ounces	feet/min.	1.829×10^4	kms./hr.
dynes/sq. cm.	1.0×10^{-4}	ergs/sq. millimeter	feet/sec.	3.048×10^{-1}	meters/min.
dynes/sq. cm.	9.869×10^{-1}	atmospheres	feet/sec./sec.	1.136×10^4	miles/hr.
dynes/sq. cm.	2.953×10^{-3}	in. of mercury	feet/sec./sec.	3.048×10^1	cms./sec.
dynes/sq. cm.		(at 0°C.)	feet/sec./sec.	1.097	kms./hr.
dynes/sq. cm.	4.015×10^{-4}	in. of water (at 4°C.)	feet/sec./sec.	5.921×10^{-1}	knots
dynes	1.020×10^{-4}	grams	feet/sec.	1.829×10^1	meters/min.
dynes	1.0×10^{-7}	joules/cm.	feet/sec.	5.818×10^{-1}	miles/hr.
dynes	1.0×10^{-8}	joules/meter	feet/sec.	1.136×10^{-4}	miles/min.
dynes		(newton)	feet/sec./sec.	3.048×10^1	cms./sec./sec.
dynes	1.020×10^{-4}	kilograms	feet/sec./sec.	1.097	kms./hr./sec.
dynes	7.233×10^{10}	pounds	feet/100 feet	3.048×10^1	meters/hr./sec.
dynes	2.248×10^{-4}	pounds	foot-candle	6.818×10^{-1}	per cent grade
dynes/sq. cm.	1.0×10^{-4}	bars	foot-candle	1.0764×10^1	lumen/sq. meter
			foot-candals	1.286×10^{-4}	lux
			foot-pounds	1.356×10^1	ergs
			foot-pounds	3.241×10^{-1}	gram-calories
			foot-pounds	5.050×10^{-1}	horsepower-hrs.
			foot-pounds	1.356	joules
			foot-pounds	3.241×10^{-4}	kg.-calories
			foot-pounds	1.383×10^{-1}	kg.-meters
			foot-pounds	3.766×10^{-1}	kilowatt-hrs.
			foot-pounds/min.	1.286×10^{-1}	btu/min.
			foot-pounds/min.	1.667×10^{-1}	foot-pounds/sec.
			foot-pounds/min.	3.030×10^{-1}	horsepower
			foot-pounds/min.	3.241×10^{-1}	kg.-calories/min.
			foot-pounds/sec.	2.260×10^{-1}	kilowatts
			foot-pounds/sec.	4.6268	btu/hr.
			foot-pounds/sec.	7.717×10^{-1}	btu/min.
			foot-pounds/sec.	1.818×10^{-1}	horsepower
			foot-pounds/sec.	1.945×10^{-1}	kg.-calories/min.
			foot-pounds/sec.	3.356×10^{-1}	kilowatts
E					
el	1.1430×10^4	cm.			
el	4.5×10^1	inches			
em, picas	1.67×10^1	inch			
em, picas	4.230×10^1	cm.			
erg/sec.	1.0	dyne-cm./sec.			
ergs	9.486×10^{-11}	btu			
ergs	1.0	dyne-centimeters			
ergs	7.376×10^{-4}	foot-pounds			
ergs	2.389×10^{-4}	gram-calories			
ergs	1.020×10^{-4}	gram-cms.			
ergs	3.7260×10^{-10}	horsepower-hrs.			



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furlongs	1.25×10^{-1}	miles (u.s.)	gram-calories/sec.	1.4286×10^1	btu/hr.
furlongs	4.0×10^1	rods	gram-centimeters	9.297×10^{-4}	btu
furlongs	6.6×10^2	feet	gram-centimeters	9.807×10^2	ergs
furlongs	2.0117×10^4	meters	gram-centimeters	9.807×10^{-3}	joules
G					
gallons	3.785×10^3	cu. cms.	hand	1.016×10^1	cm.
gallons	1.337×10^1	cu. feet	hectares	2.471	acres
gallons	2.31×10^3	cu. inches	hectares	1.076×10^6	sq. feet
gallons	3.785×10^{-3}	cu. meters	hectograms	1.0×10^2	grams
gallons	4.951×10^{-3}	cu. yards	hectoliters	1.0×10^3	liters
gallons	3.785	liters	hectometers	1.0×10^2	meters
gallons (liq. br. imp.)	1.20095	gallons (u.s. liquid)	hectowatts	1.0×10^2	watts
gallons (u.s.)	8.3267×10^{-1}	gallons (imp.)	henries	1.0×10^3	millihenries
gallons of water	8.337	pounds of water	hogsheads (british)	1.0114×10^1	cubic ft.
gallons/min.	2.228×10^{-3}	cu. feet/sec.	hogsheads (u.s.)	8.42184	cubic ft.
gallons/min.	6.308×10^{-2}	cu. feet/sec.	horsepower	6.3×10^1	gallons (u.s.)
gallons/min.	8.0208	cu. feet/hr.	horsepower	4.244×10^1	btu/min.
gausses	6.452	lines/sq. in.	horsepower	3.3×10^4	foot-lbs./min.
gausses	1.0×10^{-4}	webers/sq. cm.	horsepower	5.50×10^2	foot-lbs./sec.
gausses	6.452×10^{-4}	webers/sq. in.	horsepower (metric)	9.863×10^{-1}	horsepower
gausses	1.0×10^{-4}	webers/sq. meter	horsepower	1.014	horsepower (metric)
gausses	7.958×10^{-1}	amp.-turn/cm.	horsepower	1.068×10^1	kg.-calories/min.
gausses	1.0	gilbert/cm.	horsepower	7.457×10^{-1}	kilowatts
gilberts	7.958×10^{-1}	ampere-turns	horsepower	7.457×10^1	watts
gilberts/cm.	7.958×10^{-1}	ampere-turns/cm.	horsepower (boiler)	3.352×10^4	btu/hr.
gilberts/cm.	2.021	ampere-turns/in.	horsepower (boiler)	9.803	kilowatts
gilberts/cm.	7.958×10^1	ampere-turns/meter	horsepower-hours	2.547×10^3	btu
I					
gills (british)	1.4207×10^2	cubic cm.	horsepower-hours	2.6845×10^3	ergs
gills (u.s.)	1.18295×10^2	cubic cm.	horsepower-hours	1.98×10^4	foot-lbs.
gills (u.s.)	1.183×10^1	liters	horsepower-hours	6.4119×10^3	gram-calories
gills (u.s.)	2.5×10^1	pints (liq.)	horsepower-hours	2.684×10^4	joules
grade	1.571×10^{-2}	radian	horsepower-hours	6.417×10^2	kg.-calories
grains	3.657×10^{-2}	drams (avdp.)	horsepower-hours	2.737×10^6	kg.-meters
grains (troy)	1.0	grains (avdp.)	horsepower-hours	7.457×10^{-1}	kilowatt-hrs.
grains (troy)	6.48×10^{-2}	grams	hours	4.167×10^{-2}	days
grains (troy)	2.0833×10^{-3}	ounces (avdp.)	hours	5.952×10^{-4}	weeks
grains (troy)	4.167×10^{-2}	pennyweight (troy)	hours	3.6×10^3	seconds
grains/u.s. gallon	1.7118×10^1	parts/million	hundredwghts(long)	1.12×10^2	pounds
grains/u.s. gallon	1.4286×10^2	pounds/million	hundredwghts(long)	5.0×10^{-2}	tons (long)
grains/imp. gallon	1.4286×10^1	parts/million	hundredwghts(short)	5.08023×10^1	kilograms
grams	9.807×10^2	dynes	hundredwghts(short)	4.53592×10^{-2}	tons (metric)
grams	1.543×10^1	grains (troy)	hundredwghts(short)	4.46429×10^{-4}	tons (long)
grams	9.807×10^{-5}	joules/cm.	hundredwghts(short)	4.53592×10^1	kilograms
grams	9.807×10^{-3}	joules/meter			
J					
grams	1.0×10^{-3}	(newtons)	inches	2.540	centimeters
grams	1.0×10^3	kilograms	inches	2.540×10^{-2}	meters
grams	3.527×10^{-2}	milligrams	inches	1.578×10^{-5}	miles
grams	3.215×10^{-2}	ounces (avdp.)	inches	2.54×10^{-1}	millimeters
grams	7.093×10^{-2}	ounces (troy)	inches	1.0×10^3	mils
grams	2.205×10^{-3}	poundals	inches	2.778×10^{-2}	yards
grams/cm.	5.6×10^{-3}	pounds/in.	inches	2.54×10^4	angstrom units
grams/cu. cm.	6.243×10^1	pounds/cu. ft.	inches	5.0505×10^{-3}	rods
grams/cu. cm.	3.613×10^{-2}	pounds/cu. in.	inches	3.342×10^{-2}	atmospheres
grams/cu. cm.	3.405×10^{-2}	pounds/ml-foot	inches	1.133	feet of water
grams/liter	5.8417×10^1	grains/gal.	inches	3.453×10^{-2}	kgs./sq. cm.
grams/liter	8.345	pounds/1,000 gal.	inches	3.453×10^2	kgs./sq. meter
grams/liter	6.2427×10^{-2}	pounds/cu. ft.	inches	7.073×10^1	pounds/sq. ft.
grams/sq. cm.	2.0481	pounds/sq. ft.	inches	4.912×10^{-1}	pounds/sq. in.
gram-calories	3.9683×10^{-3}	btu	in. of water (at 4°C.)	2.458×10^{-3}	atmospheres
gram-calories	4.184×10^2	ergs	in. of water (at 4°C.)	3.7355×10^{-2}	inches of mercury
gram-calories	3.086	foot-pounds	in. of water (at 4°C.)	2.54×10^{-3}	kgs./sq. cm.
gram-calories	1.5596×10^{-4}	horsepower-hrs.	in. of water (at 4°C.)	5.781×10^{-1}	ounces/sq. in.
gram-calories	1.162×10^{-4}	kilowatt-hrs.	in. of water (at 4°C.)	5.204	pounds/sq. ft.
gram-calories	1.162×10^{-3}	watt-hrs.	in. of water (at 4°C.)	3.613×10^{-1}	pounds/sq. in.



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internat'l ampere	9.998×10^{-1}	absolute amp. (u.s.)	kiloliters	1.0×10^3	liters
internat'l volt	1.00033	absolute volt (u.s.)	kiloliters	1.308	cubic yards
internat'l coulomb	9.99835×10^{-1}	absolute coulomb	kiloliters	3.5315×10^1	cubic feet
	J		kiloliters	2.6418×10^2	gallons (u.s. liquid)
joules	9.486×10^{-4}	btu	kilometers	1.0×10^5	centimeters
joules	1.0×10^7	ergs	kilometers	3.281×10^3	feet
joules	7.736×10^{-1}	foot-pounds	kilometers	3.937×10^4	inches
joules	2.389×10^{-4}	kg.-calories	kilometers	1.0×10^3	meters
joules	1.020×10^{-1}	kg.-meters	kilometers	6.214×10^{-1}	miles (statute)
joules	2.778×10^{-4}	watt-hrs.	kilometers	5.396×10^{-1}	miles (nautical)
joules/cm.	1.020×10^4	grams	kilometers	1.0×10^4	millimeters
joules/cm.	1.0×10^7	dynes	kilometers	1.0936×10^3	yards
joules/cm.	1.0×10^8	joules/meter (newtons)	kilometers	2.778×10^1	cms./sec.
joules/cm.	7.233×10^2	poundals	kilometers	5.468×10^1	feet/min.
joules/cm.	2.248×10^1	pounds	kilometers	9.113×10^{-1}	feet/sec.
	K		kilometers	5.396×10^1	knobs
kilograms	9.80665×10^3	dynes	kilometers	1.667×10^1	meters/min.
kilograms	1.0×10^3	grams	kilometers	6.214×10^1	miles/hr.
kilograms	9.807×10^{-2}	joules/cm.	kilometers	2.778×10^1	ft./sec./sec.
kilograms	9.807	joules/meter (newtons)	kilometers	9.113×10^{-1}	ft./sec./sec.
kilograms	7.093×10^1	poundals	kilometers	2.778×10^1	meters/sec./sec.
kilograms	2.2046	pounds	kilometers	6.214×10^1	miles/hr./sec.
kilograms	9.842×10^{-4}	tons (long)	kilowatts	5.692×10^1	btu/min.
kilograms	1.102×10^{-1}	tons (short)	kilowatts	4.426×10^1	foot-lbs./min.
kilograms	3.5274×10^1	ounces (avdp.)	kilowatts	7.376×10^2	foot-lbs./sec.
kilograms/cu. meter	1.0×10^{-3}	grams/cu. cm.	kilowatts	1.341	horsepower
kilograms/cu. meter	6.243×10^{-2}	pounds/cu. ft.	kilowatts	1.434×10^1	kg.-calories/min.
kilograms/cu. meter	3.613×10^{-2}	pounds/cu. in.	kilowatt-hrs.	1.0×10^3	watts
kilograms/cu. meter	3.405×10^{-10}	pounds/mil-foot	kilowatt-hrs.	3.413×10^3	ergs
kilograms/meter	6.72×10^{-1}	pounds/ft.	kilowatt-hrs.	3.6×10^1	foot-lbs.
kilograms/sq. cm.	9.80665×10^3	dynes/sq. cm.	kilowatt-hrs.	8.5958×10^3	gram calories
kilograms/sq. cm.	9.678×10^{-1}	atmospheres	kilowatt-hrs.	1.341	horsepower-hours
kilograms/sq. cm.	3.281×10^1	feet of water	kilowatt-hrs.	3.6×10^4	joules
kilograms/sq. cm.	2.896×10^1	inches of mercury	kilowatt-hrs.	8.605×10^2	kg.-calories
kilograms/sq. cm.	2.048×10^3	pounds/sq. ft.	kilowatt-hrs.	3.671×10^3	kg.-meters
kilograms/sq. cm.	1.422×10^1	pounds/sq. in.	kilowatt-hrs.	3.53	pounds of water
kilograms/sq. meter	9.678×10^{-8}	atmospheres			evaporated from
kilograms/sq. meter	9.807×10^{-5}	bars			and at 212°F.
kilograms/sq. meter	3.281×10^{-1}	feet of water			pounds of water
kilograms/sq. meter	2.896×10^{-1}	inches of mercury			raised from 62°
kilograms/sq. meter	2.048×10^{-1}	pounds/sq. ft.			to 212°F.
kilograms/sq. meter	1.422×10^{-3}	pounds/sq. in.			feet/hr.
kilograms/sq. meter	9.80665×10^1	dynes/sq. cm.			kilometers/hr.
kilograms/sq. mm.	1.0×10^4	kgs./sq. meter			nautical miles/hr.
kilogram-calories	3.968	btu			statute miles/hr.
kilogram-calories	3.086×10^3	foot-pounds			yards/hr.
kilogram-calories	1.558×10^{-3}	horsepower-hrs.			cm./sec.
kilogram-calories	4.183×10^4	joules	L		
kilogram-calories	4.269×10^2	kg.-meters	lambert	3.183×10^1	candle/sq. cm.
kilogram-calories	4.186	kilojoules	lambert	2.054	candle/sq. in.
kilogram-calories	1.163×10^{-3}	kilowatt-hrs.	league	3.0	miles (approx.)
kilogram-calories	5.143×10^1	ft.-lbs./sec.	light year	5.9×10^{12}	miles
kilogram-calories/min.			light year	9.46091×10^{12}	kilometers
kilogram-calories/min.	9.351×10^{-1}	horsepower	lines/sq. cm.	1.0	gausses
kilogram-calories/min.	6.972×10^{-2}	kilowatts	lines/sq. in.	1.55×10^{-1}	gausses
kilogram-meters	9.296×10^{-3}	btu	lines/sq. in.	1.55×10^{-4}	webers/sq. cm.
kilogram-meters	9.807×10^7	ergs	lines/sq. in.	1.0×10^{-8}	webers/sq. in.
kilogram-meters	7.233	foot-pounds	lines/sq. in.	1.55×10^{-8}	webers/sq. meter
kilogram-meters	9.807	joules	links (engineers)	1.2×10^1	inches
kilogram-meters	2.342×10^{-1}	kg.-calories	links (surveyors)	7.92	inches
kilogram-meters	2.723×10^{-4}	kilowatt-hrs.	liters	2.838×10^{-1}	bushels (u.s. dry)
kilobines	1.0×10^3	maxwells	liters	1.0×10^3	cu. cm.



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liters	1.308×10^{-3}	cu. yards	miles (statute)	1.609×10^4	centimeters
liters	2.642×10^{-1}	gallons (u.s. liquid)	miles (statute)	5.280×10^4	feet
liters	2.113	pints (u.s. liquid)	miles (statute)	6.336×10^4	inches
liters	1.057	quarts (u.s. liquid)	miles (statute)	1.609	kilometers
liters/min.	5.886×10^{-4}	cu. ft./sec.	miles (statute)	1.609×10^4	meters
liters/min.	4.403×10^{-1}	gals./sec.	miles (statute)	8.684×10^{-1}	miles (nautical)
$\log_{10} n$	2.303	In n	miles (statute)	1.760×10^4	yards
In n	4.343×10^{-1}	$\log_{10} n$	miles (statute)	1.69×10^{-13}	light years
lumen	7.958×10^{-2}	spherical candle	miles/hr.	4.470×10^4	cms./sec.
		power	miles/hr.	8.8×10^1	ft./min.
lumen/sq. ft.	1.0	foot-candles	miles/hr.	1.467	ft./sec.
lumen/sq. ft.	1.076×10^1	lumen-sq. meter	miles/hr.	1.6093	kms./hr.
lux	9.29×10^{-2}	foot-candles	miles/hr.	2.682×10^{-3}	kms./min.
M					
maxwells	1.0×10^{-4}	kilolines	miles/hr.	8.684×10^{-1}	knots
maxwells	1.0×10^{-8}	webers	miles/hr.	2.682×10^{-2}	meters/min.
megalines	1.0×10^4	maxwells	miles/hr.	1.667×10^{-2}	miles/min.
megohms	1.0×10^{12}	microohms	miles/hr.	4.47×10^1	cms./sec./sec.
megohms	1.0×10^6	ohms	miles/hr.	1.467	ft./sec./sec.
megmhos/cubic cm.	1.0×10^{-3}	abmhos/cubic cm.	miles/min.	1.6093	kms./hr./sec.
megmhos/cubic cm.	2.54	megmhos/cubic in.	miles/min.	2.682×10^4	meters/sec.
megmhos/cubic cm.	1.662×10^{-1}	mhos/mil. ft.	miles/min.	8.8×10^1	feet/sec.
megmhos/in. cube	3.937×10^{-1}	megmhos/cubic cm.	miles/min.	1.6093	feet/min.
meters	1.0×10^6	angstrom units	miles/min.	8.684×10^{-1}	kms./min.
meters	1.0×10^8	centimeters	miles/min.	6.0×10^1	miles/hr.
meters	5.4681×10^{-1}	fathoms	meters	1.0×10^3	kilograms
meters	3.281	feet	millimicrons	1.0×10^{-9}	meters
meters	3.937×10^1	inches	milligrams	1.5432×10^{-1}	grains
meters	1.0×10^{-3}	kilometers	milligrams/liter	1.0×10^{-9}	grams
meters	5.400×10^{-4}	miles (nautical)	millihenries	1.0×10^{-3}	parts/million
meters	6.214×10^{-4}	miles (statute)	milliliters	1.0×10^{-3}	henries
meters	1.0×10^3	millimeters	millimeters	1.0×10^{-1}	liters
meters	1.094	yards	millimeters	3.281×10^{-3}	centimeters
meters/min.	1.667	cms./sec.	millimeters	3.937×10^{-1}	feet
meters/min.	3.281	feet/min.	millimeters	1.0×10^{-4}	inches
meters/min.	5.468×10^{-2}	feet/sec.	millimeters	1.0×10^{-3}	kilometers
meters/min.	6.0×10^{-2}	kms./hr.	millimeters	6.214×10^{-7}	meters
meters/min.	3.240×10^{-2}	knots	millimeters	3.937×10^1	miles
meters/min.	3.728×10^{-2}	miles/hr.	millimeters	1.094×10^{-3}	milis
meters/sec.	1.968×10^2	feet/min.	million gals./day	1.54723	yards
meters/sec.	3.281	feet/sec.	mils	2.54×10^{-3}	cu. ft./sec.
meters/sec.	3.6	kilometers/hr.	mils	8.333×10^{-4}	feet
meters/sec.	6.0×10^{-2}	kilometers/min.	mils	1.0×10^{-3}	inches
meters/sec.	2.237	miles/hr.	mils	2.54×10^{-4}	kilometers
meters/sec.	3.728×10^{-2}	miles/min.	mils	2.778×10^{-4}	yards
meters/sec./sec.	1.0×10^2	mins./min.	miner's inches	1.5	cu. ft./min.
meters/sec./sec.	3.281	ft./sec./sec.	minims (british)	5.9192×10^{-2}	cubic cm.
meters/sec./sec.	3.6	kms./hr./sec.	minims (u.s. fluid)	6.1612×10^{-2}	cubic cm.
meters/sec./sec.	2.237	miles/hr./sec.	minutes (angles)	1.667×10^{-1}	degrees
meter-kilograms	9.807×10^2	cm-dynes	minutes (angles)	1.852×10^{-4}	quadrants
meter-kilograms	1.0×10^5	cm-grams	minutes (angles)	2.909×10^{-4}	radians
meter-kilograms	7.233	pound-feet	minutes (time)	6.0×10^1	seconds
microfarads	1.0×10^{-15}	abfarads	minutes (time)	9.9206×10^{-4}	weeks
microfarads	1.0×10^{-6}	farads	minutes (time)	6.944×10^{-4}	days
microfarads	9.0×10^5	statfarads	minutes (time)	1.667×10^{-2}	hours
micrograms	1.0×10^{-6}	grams	minutes (time)	6.0×10^1	seconds
microhms	1.0×10^3	abohms	myriagrams	1.0×10^1	kilograms
microhms	1.0×10^{-12}	megohms	myriameters	1.0×10^1	kilometers
microliters	1.0×10^{-4}	ohms	myriawatts	1.0×10^1	kilowatts
micromicrons	1.0×10^{-12}	liters			
microns	1.0×10^{-4}	meters			
miles (nautical)	6.076×10^3	meters	nails	2.25	inches
miles (nautical)	1.852	feet	newtons	1.0×10^5	dynes
miles (nautical)	1.852×10^3	meters			
miles (nautical)	1.1516	miles (statute)			
miles (nautical)	2.0254×10^3	yards			
N					
O					
ohm (international)	1.0005		ohm (absolute)		
ohms	1.0×10^{-4}		megohms		



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ohms	1.0×10^4	microhms	pounds	1.21528	pounds (troy)			
ounces	8.0	drams	pounds	5.0×10^{-4}	tons (short)			
ounces	4.375×10^2	grains	pounds (troy)	5.760×10^3	grains			
ounces	2.8349×10^1	grams	pounds (troy)	3.7234×10^2	grams			
ounces	6.25×10^{-1}	pounds	pounds (troy)	1.3166×10^1	ounces (avdp.)			
ounces	9.115×10^{-1}	ounces (troy)	pounds (troy)	1.2×10^1	ounces (troy)			
ounces	2.790×10^{-5}	tons (long)	pounds (troy)	2.4×10^2	pennyweights (troy)			
ounces	3.125×10^{-3}	tons (short)	pounds (troy)	8.2286×10^{-1}	pounds (avdp.)			
ounces (fluid)	1.805	cu. inches	pounds (troy)	3.6735×10^{-4}	tons (long)			
ounces (fluid)	2.957×10^{-2}	liters	pounds (troy)	3.7324×10^{-4}	tons (metric)			
ounces (troy)	4.80×10^2	grams	pounds (troy)	4.1143×10^{-4}	tons (short)			
ounces (troy)	3.1103×10^1	grams	pounds of water	1.602×10^{-1}	cu. ft.			
ounces (troy)	1.097	ounces (avdp.)	pounds of water	2.768×10^1	cu. inches			
ounces (troy)	2.0×10^1	pennyweights (troy)	pounds of water	1.198×10^{-1}	gallons			
ounces (troy)	8.333×10^{-2}	pounds (troy)	pounds of water/min.	2.670×10^{-4}	cu. ft./sec.			
ounce/sq. in.	4.309×10^2	dynes/sq. cm.	pound-feet	1.356×10^2	cm.-dynes			
ounce/sq. in.	6.25×10^{-2}	pounds/sq. in.	pound-feet	1.3825×10^4	cm.-grams			
P								
pace	3.0×10^1	inches	pounds/cu. ft.	1.383×10^{-1}	meter-kgs.			
parsec	1.9×10^{13}	miles	pounds/cu. ft.	1.602×10^{-2}	grams/cu. cm.			
parsec	3.084×10^{12}	kilometers	pounds/cu. ft.	1.602×10^1	kgs./cu. meter			
parts/million	5.84×10^{-2}	grains/u.s. gal.	pounds/cu. ft.	5.787×10^{-4}	pounds/cu. inches			
parts/million	7.016×10^{-2}	grains/imp. gal.	pounds/cu. in.	5.456×10^3	pounds/mil-foot			
parts/million	8.345	pounds/million gal.	pounds/cu. in.	2.768×10^1	grams/cu.cm.			
pecks (british)	5.546×10^2	cubic inches	pounds/cu. in.	2.768×10^4	kgs./cu. meter			
pecks (british)	9.0919	liters	pounds/cu. in.	1.728×10^3	pounds/cu. ft.			
pecks (u.s.)	2.5×10^{-1}	bushels	pounds/cu. in.	9.425×10^{-4}	pounds/mil-foot			
pecks (u.s.)	5.376×10^2	cubic inches	pounds/cu. in.	4.488	kgs./meter			
pecks (u.s.)	8.8096	liters	pounds/cu. in.	1.786×10^1	grams/cm.			
pecks (u.s.)	8	quarts (dry)	pounds/cu. in.	2.306×10^4	grams/cu. cm.			
pennyweights (troy)	2.4×10^2	grains	pounds/cu. in.	4.725×10^{-4}	atmospheres			
pennyweights (troy)	5.0×10^{-2}	ounces (troy)	pounds/cu. in.	1.602×10^{-2}	feet of water			
pennyweights (troy)	1.555	grams	pounds/cu. in.	1.414×10^{-2}	inches of mercury			
pennyweights (troy)	4.1667×10^{-3}	pounds (troy)	pounds/sq. in.	4.882	kgs./sq. meter			
pints (dry)	3.36×10^1	cubic inches	pounds/sq. in.	6.944×10^{-3}	pounds/sq. inch			
pints (dry)	1.5625×10^{-1}	bushels	pounds/sq. in.	6.804×10^{-2}	atmospheres			
pints (dry)	5.0×10^{-1}	quarts	pounds/sq. in.	2.307	feet of water			
pints (dry)	5.5059×10^{-1}	liters	pounds/sq. in.	2.036	inches of mercury			
pints (liquid)	4.732×10^2	cubic cms.	pounds/sq. in.	7.031×10^2	kgs./sq. meter			
pints (liquid)	1.671×10^{-1}	cubic ft.	pounds/sq. in.	1.44×10^1	pounds/sq. ft.			
pints (liquid)	2.887×10^1	cubic inches	pounds/sq. in.	7.2×10^{-2}	short tons/sq. ft.			
pints (liquid)	4.732×10^{-4}	cubic meters	pounds/sq. in.	7.03×10^{-2}	kgs./sq. cm.			
pints (liquid)	6.189×10^{-4}	cubic yards	Q					
pints (liquid)	1.25×10^{-1}	gallons	quadrants (angle)	9.0×10^1	degrees			
pints (liquid)	4.732×10^{-1}	liters	quadrants (angle)	5.4×10^3	minutes			
pints (liquid)	5.0×10^{-1}	quarts (liquid)	quadrants (angle)	1.571	radians			
planck's quantum	6.624×10^{-37}	erg-seconds	quadrants (angle)	3.24×10^5	seconds			
poise	1.0	gram/cm.sec.	quarts (dry)	6.72×10^1	cu. inches			
pounds (avdp.)	1.4583×10^1	ounces (troy)	quarts (liquid)	9.464×10^2	cu. cms.			
poundals	1.3826×10^4	dynes	quarts (liquid)	3.342×10^{-1}	cu. ft.			
poundals	1.41×10^1	grams	quarts (liquid)	5.775×10^1	cu. inches			
poundals	1.383×10^{-3}	joules/cm.	quarts (liquid)	9.464×10^{-4}	cu. meters			
poundals	1.383×10^{-1}	joules/meter	quarts (liquid)	1.238×10^{-3}	cu. yards			
R								
poundals	1.41×10^{-2}	(newtons)	quarts (liquid)	2.5×10^{-1}	gallons			
poundals	3.108×10^{-1}	kilograms	quarts (liquid)	9.463×10^{-1}	liters			
pounds	2.56×10^4	pounds	radians	5.7296×10^1	degrees			
pounds	4.448×10^3	drams	radians	3.438×10^1	minutes			
pounds	7.0×10^3	grains	radians	6.366×10^{-1}	quadrants			
pounds	4.5359×10^2	grams	radians	2.063×10^1	seconds			
pounds	4.448×10^{-2}	joules/cm.	radians/sec.	5.7296×10^1	degrees/sec.			
pounds	4.448	joules/meter	radians/sec.	9.549	revolutions/min.			
S								
pounds	4.536×10^{-1}	(newtons)	radians/sec.	1.592×10^{-1}	revolution/sec.			
pounds	1.6×10^1	kilograms	radians/sec./sec.	5.7296×10^2	revs./min./min.			
pounds	1.458×10^1	ounces	radians/sec./sec.	9.549	revs./min./sec.			
pounds	3.217×10^1	ounces (troy)	radians/sec./sec.	1.592×10^{-1}	revs./sec./sec.			
R								
		poundals	reams	5.0×10^2	sheets			



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TO CONVERT	MULTIPLY BY	TO OBTAIN	TO CONVERT	MULTIPLY BY	TO OBTAIN
revolutions	3.60×10^3	degrees	square meters	1.196	sq. yards
revolutions	4.0	quadrants	square miles	6.40×10^4	acres
revolutions	6.283	radians	square miles	2.788×10^7	sq. ft.
revolutions/min.	6.0	degrees/sec.	square miles	2.590	sq. kms.
revolutions/min.	1.047×10^{-1}	radians/sec.	square miles	2.590×10^4	sq. meters
revolutions/min.	1.667×10^{-2}	revs./sec.	square miles	3.098×10^4	sq. yards
revs./min./min.	1.745×10^{-2}	radians/sec./sec.	square millimeters	1.973×10^3	circular mils
revs./min./min.	1.667×10^{-2}	revs./min./sec.	square millimeters	1.0×10^{-2}	sq. cms.
revs./min./min.	2.778×10^{-4}	revs./sec./sec.	square millimeters	1.076×10^{-4}	sq. ft.
revolutions/sec.	3.6×10^2	degrees/sec.	square millimeters	1.55×10^{-3}	sq. inches
revolutions/sec.	6.283	radians/sec.	square mils	1.273	circular mils
revolutions/sec.	6.0×10^1	revs./min.	square mils	6.452×10^{-4}	sq. cms.
revs./sec./sec.	6.283	radians/sec./sec.	square yards	1.0×10^{-4}	sq. inches
revs./sec./sec.	3.6×10^3	revs./min./min.	square yards	2.066×10^{-4}	acres
revs./sec./sec.	6.0×10^1	revs./min./sec.	square yards	8.361×10^3	sq. cms.
rods	2.5×10^{-1}	chains (gunters)	square yards	9.0	sq. ft.
rods	5.029	meters	square yards	1.296×10^3	sq. inches
rods (surveyors' meas.)	5.5	yards	square yards	8.361×10^{-1}	sq. meters
rods	1.65×10^1	feet	square yards	3.228×10^{-7}	sq. miles
rods	1.98×10^1	inches	square yards	8.361×10^5	sq. millimeters
rods	3.125×10^{-3}	miles	steradians	7.958×10^{-2}	spheres
rope	2.0×10^1	feet	steradians	1.592×10^{-1}	hemispheres
S			steradians	6.366×10^{-1}	spherical right angles
T			steradians	3.283×10^4	square degrees
steres			steres	9.99973×10^2	liters
scruples	2.0×10^1	grains	temperature ($^{\circ}\text{C}.$)	1.0	absolute temperature ($^{\circ}\text{K}.$)
seconds (angle)	2.778×10^{-4}	degrees	temperature ($^{\circ}\text{C}.$)	1.8	temperature ($^{\circ}\text{F}.$)
seconds (angle)	1.667×10^{-2}	minutes	temperature ($^{\circ}\text{F}.$)	+17.78	absolute temperature ($^{\circ}\text{R}.$)
seconds (angle)	3.087×10^{-6}	quadrants	temperature ($^{\circ}\text{F}.$)	1.0	temperature ($^{\circ}\text{C}.$)
seconds (angle)	4.848×10^{-6}	radians	temperature ($^{\circ}\text{F}.$)	+460	temperature ($^{\circ}\text{R}.$)
slugs	1.459×10^1	kilograms	temperature ($^{\circ}\text{F}.$)	5/9	temperature ($^{\circ}\text{C}.$)
slugs	3.217×10^1	pounds	tons (long)	1.016×10^3	kilograms
sphere (solid angle)	1.257×10^1	steradians	tons (long)	2.24×10^3	pounds
square centimeters	1.973×10^6	circular mils	tons (long)	1.12	tons (short)
square centimeters	1.076×10^{-3}	sq. feet	tons (metric)	1.0×10^3	kilograms
square centimeters	1.550×10^{-1}	sq. inches	tons (metric)	2.205×10^3	pounds
square centimeters	1.0×10^{-4}	sq. meters	tons (short)	9.0718×10^2	kilograms
square centimeters	3.861×10^{-11}	sq. miles	tons (short)	3.2×10^4	ounces
square centimeters	1.0×10^2	sq. millimeters	tons (short)	2.9166×10^4	ounces (troy)
square centimeters	1.196×10^{-4}	sq. yards	tons (short)	2.0×10^3	pounds
square degrees	3.0462×10^4	steradians	tons (short)	2.43×10^3	pounds (troy)
square feet	2.296×10^{-5}	acres	tons (short)	8.9287×10^{-1}	tons (long)
square feet	1.833×10^4	circular mils	tons (short)	9.078×10^{-1}	tons (metric)
square feet	9.29×10^3	sq. cms.	tons (short)/sq. ft.	9.765×10^3	kgs./sq. meter
square feet	1.44×10^4	sq. inches	tons (short)/sq. ft.	1.389×10^1	pounds/sq. in.
square feet	9.29×10^{-2}	sq. meters	tons (short)/sq. in.	1.406×10^4	kgs./sq. meter
square feet	3.587×10^{-4}	sq. miles	tons (short)/sq. in.	2.0×10^3	pounds/sq. in.
square feet	9.29×10^4	sq. millimeters	tons of water/24 hrs.	8.333×10^1	pounds of water/hr.
square feet	1.111×10^{-1}	sq. yards	tons of water/24 hrs.	1.6643×10^{-1}	gallons/min.
square inches	1.273×10^4	circular mils	tons of water/24 hrs.	1.3349	cu. ft./hr.
square inches	6.452	sq. cms.			
square inches	6.944×10^{-3}	sq. ft.			
square inches	6.452×10^4	sq. millimeters			
square inches	1.0×10^6	sq. miles			
square inches	7.716×10^{-4}	sq. yards			
square kilometers	2.471×10^4	acres			
square kilometers	1.0×10^{10}	sq. cms.			
square kilometers	1.076×10^7	sq. ft.			
square kilometers	1.550×10^6	sq. inches			
square kilometers	1.0×10^4	sq. meters			
square kilometers	3.861×10^{-1}	sq. miles			
square kilometers	1.196×10^4	sq. yards			
square meters	2.471×10^4	acres			
square meters	1.0×10^4	sq. cms.			
square meters	1.076×10^1	sq. ft.			
square meters	1.55×10^3	sq. inches			
square meters	3.861×10^{-7}	sq. miles			
square meters	1.0×10^6	sq. millimeters			
V					
volt/inch			volt/inch	3.937×10^7	abvolts/cm.
volt/inch			volt/inch	3.937×10^{-1}	volt/cm.
volt (absolute)			volt (absolute)	3.336×10^{-3}	stativolts
volts			volts	1.0×10^4	abvolts
W					
watts			watts	3.4129	btu/hr.
watts			watts	5.688×10^{-2}	btu/min.
watts			watts	1.0×10^7	ergs/sec.
watts			watts	4.427×10^1	ft.-lbs./min.



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