

Measurements and Units of Issue

The measurements that Marines are accustomed to may need to be written into a contract with modifications so that the contractors understand the required measurements. The following are various conversions the CCO may use in dealing with foreign contractors:

Metric Equivalents	Metric Equivalents	U.S. Equivalents
1 centiliter	10 milliliters	.34 fl. ounces
1 centimeter	10 millimeters	.39 inch
1 deciliter	10 centiliters	3.38 fl. ounces
1 decimeter	10 centimeters	3.94 inches
1 liter	10 deciliters	33.81 fl. ounces
1 meter	10 decimeters	39.37 inches
1 deciliter	10 liters	2.64 gallons
1 decameter	10 meters	32.8 feet
1 hectoliter	10 deciliters`	26.42 gallons
1 hectometer	10 decameters	328.08 feet
1 kilometer	10 hectoliters	264.18 gallons
1 kilometer	10 hectometers	328.8 feet
1 sq. centimeter	100 sq. millimeters	155 sq. inches
1 centigram	10 milligrams	.15 grams
1 sq. decimeter	100 sq. centimeters	15.5 sq. inches
1 decigram	10 centigrams	1.54 grams
1 sq. meter (centare)	100 sq. tecimeters	0.76 sq. feet
1 gram	10 decigram	.035 ounce
1 sq. decameter (are)	100 sq. meters	1,076.4 sq. feet
1 decagram	10 grams	.35 ounce
1 sq. hectometer (hectare)	100 sq. decameters	2.47 acres
1 hectogram`	10 decagrams	3.52 ounces
1 sq. kilometer	100 sq. hectometers	.386 sq. mile
1 kilogram	10 hectograms	2.2 pounds
1 quintal	100 kilograms	220.46 pounds
1 metric ton	10 quintals	1.1 short tons
1 cu. centimeter	1000 cu. millimeters	.06 cu. inch
1 cu. decimeter	1000 cu. centimeters	61.02 cu. inches
1 cu. meter	1000 cu. decimeters	35.31 cu. feet

Unit of Issue Designations

The following are the abbreviations used to identify commodities or supplies on orders, standard forms or contracts:

AM Ampoule	AT Assortment	AY Assembly
BA Ball	BC Block	BD Bundle
BE Bale	BF Board Feet	BG Bag
BK Book	BL Barrel	BO Bolt
BR Bar	BT Bottle	BX Box
CA Cartridge	CB Carboy	CC Cubic Centimeters
CD Cubic Yard	CE Cone	CF Cubic Feet
CK Cake	CL Coil	CM Centimeters
CN Can	CO Container	CS Case
CT Carton	CY Cylinder	CZ Cubic Meters
DR Drum	DZ Dozen	EA Each
EN Envelope	FD Fold	FT Feet
GL Gallon	GM Gram	GP Group
GR Gross	HD Hundred	HF Hundred Feet
HK Hank	IN Inch	JR Jar
KE Keg	KG Kilograms	KT Kit
LB Pound	LF Linear Feet	LG Length
LI Liter	LO Lot	MC Thousand Cubic Feet
ME Meal	MG Milligrams	MM Millimeters
MR Meters	MX Thousand	OT Outfit
OZ Ounce	PC Piece	PD Pad
PG Package	PK Pack	PL Pail
PM Plate	PN Panel	PR Pair
PT Pint	PZ Packet	QR Quire
QT Quart	RA Ration	RL Reel
RM Ream	RO Roll	R,Y Thousand Rounds
SA Sack	SC Square Centimeters	SD Skid
SE Set	SF Square Feet	SH Sheet
SK Skein	SL Spool	SM Square Meters
SO Shot	SP Strip	SU Subscription
SV Sleeve	SX Stick	SY Square Yards
TN Ton	TO Troy Ounce	TU Tube
UN Unit	VI Vial	XX Ten
YD Yards		

Approximate Conversion Factors

To change...	To...	Multiply by...
inches	centimeters	2.540
ounce inches	newtonmeters	.007062
feet	meters	.305
centimeters	inches	394
yards	meters	.914
meters	feet	3.280
miles	kilometers	1.609
meters	yards	1.094
square inches	square centimeters	6.451
kilometers	miles	.621
square feet	square meters	.093
square centimeters	square inches	.155
square yards	square meters	.836
square meters	square feet	10.764
square miles	square kilometers	2.590
square meters	square yards	1.196
acres	square hectometers	.405
square kilometers	square miles	386
cubic feet	cubic meters	.028
square hectometers	acres	2.471

To change...	To...	Multiply by...
cubic yards	cubic meters	.765
cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573
cubic meters	cubic yards	1.308
pints	liters	.473
milliliters	fluid ounces	.034
quarts	liters	.946
liters	pints	2.113
gallons	liters	3.785
liters	gallons	1.057
ounces	grams	28.349
liters	gallons	.264
pounds	kilograms	.454
grams	ounces	.035
short tons	metric tons	.907
kilograms	pounds	2.205
pound~feet	newtonmeters	1.356
metric tons	short tons	1.102
pound inches	newtonmeters	.11296