






















Bearings And Housings Matching Table

Bearing Housing					
	UC	UK	NA	SA	SB
 P	UCP	UKP	NAP	SAP	SBP
 F	UCF	UKF	NAF	SAF	SBF
 FL	UCFL	UKFL	NAFL	SAFL	SBFL
 T	UCT	UKT	NAT	SAT	SBT
 FC	UCFC	UKFC	NAFC	SAFC	SBFC
 PH	UCPH	UKPH	NAPH	SAPH	SBPH
 PA	UCPA	UKPA	NAPA	SAPA	SBPA
 HA	UCHA	UKHA	NAHA		
 FB	UCFB	UKFB	NAFB		
 FA	UCFA	UKFA	NAFA		
 C	UCC	UKC	NAC	SAC	SBC
 LP				SALP	SBLP
 FL				SALF	SBLF
 PP				SAPP	SBPP
 PF				SAPF	SBPF
 PFL				SAPFL	SBPFL

CONVERSION GUIDE

CONVERSION FORMULAE

LENGTH

To convert

milli-inches into micrometres	25.4
inches into millimetres	25.4
inches into centimetres	2.54
inches into metres	0.0254
feet into millimetres	304.8
feet into centimetres	30.48
feet into metres	0.3048
yards into metres	0.9144
fathoms into metres	1.8288
chains into metres	20.1168
furlongs into metres	201.168
miles, statute into kilometres	201.168
miles, nautical into kilometres	1.852

Multiply by

25.4
25.4
2.54
0.0254
304.8
30.48
0.3048
0.9144
1.8288
20.1168
201.168
201.168
1.852

VOLUME & CAPACITY

To convert

cubic inches into cubic centimetres	16.387064
cubic inches into litres	0.016387
cubic feet into cubic metres	0.0283168
cubic feet into litres	28.316847
cubic yards into cubic metres	0.7645549
UK pints into litres	0.5682613
UK quarts into litres	1.1365225
UK gallons into litres	4.54609
UK gallons into cubic metres	0.0045461
UK fluid ounces into cubic centimetres	28.413063

Multiply by

16.387064
0.016387
0.0283168
28.316847
0.7645549
0.5682613
1.1365225
4.54609
0.0045461
28.413063

AREA

To convert

square inches into square millimetres	645.16
square inches into square centimetres	6.4516
square feet into square centimetres	929.0304
square feet into square metres	0.092903
square yards into square metres	0.836127
square yards into acres	0.083613
acres into square metres	4046.8564
acres into hectares	0.4046856
square miles into square kilometres	2.589988

Multiply by

645.16
6.4516
929.0304
0.092903
0.836127
0.083613
4046.8564
0.4046856
2.589988

MASS

To convert

grains into milligrams	64.79891
grains into metric carats	0.323995
grains into grams	0.064799
pennyweights into grams	1.555174
ounces into grams	28.349523
ounces troy into grams	31.103477
ounces into kilograms	0.0283495
pounds into kilograms	0.4535924
stones into kilograms	6.3502932
hundredweights into kilograms	50.802345
tons into kilograms	1016.0469
tons into metric tonnes	1.01605
tahils into grams	37.799
kati into kilograms	0.60479

Multiply by

64.79891
0.323995
0.064799
1.555174
28.349523
31.103477
0.0283495
0.4535924
6.3502932
50.802345
1016.0469
1.01605
37.799
0.60479

POWER

To convert

foot pounds-force per second into watts	1.35582
horsepower into watts	745.7
foot pounds-force per second into kilowatts	0.001356
horsepower into kilowatts	0.7457
horsepower into metric horsepower	1.01387

Multiply by

1.35582
745.7
0.001356
0.7457
1.01387

VELOCITY

To convert

feet per second into centimetres per second	30.48
feet per second into metres per second	0.3048
miles per hour into kilometres per hour	1.609344

Multiply by

30.48
0.3048
1.609344

FORCE

To convert

pounds force into newtons	4.44822
poundals into newtons	0.138255

Multiply by

4.44822
0.138255

TEMPERATURE

To convert from degrees Fahrenheit to Centigrade:

To convert from degrees Centigrade to Fahrenheit:

$$(^{\circ}\text{F} - 32) \times \frac{5}{9} = ^{\circ}\text{C}$$

$$(^{\circ}\text{C} \times \frac{9}{5}) + 32 = ^{\circ}\text{F}$$

MOTORING CONVERSIONS

These Conversion charts indicate relative values. They are intended only as a guide and should not be used to calculate higher values where more than three decimal places would be needed.

FUEL CONSUMPTION

L/100km	=	mile/gal	mile/gal	=	L/100km
6.0	=	47.06	10	=	28.248
7.0	=	40.34	12	=	23.540
8.0	=	35.30	14	=	20.177
8.5	=	33.22	16	=	17.655
9.0	=	31.38	18	=	15.693
9.5	=	29.73	20	=	14.124
10.0	=	28.24	22	=	12.840
10.5	=	26.90	24	=	11.710
11.0	=	25.67	26	=	10.864
11.5	=	24.56	28	=	10.088
12.0	=	23.53	30	=	9.416
12.5	=	22.59	32	=	8.827
13.0	=	21.72	34	=	8.308
13.5	=	20.92	36	=	7.846
14.0	=	20.17	38	=	7.433
14.5	=	19.48	40	=	7.062
15.0	=	18.83	42	=	6.726
16.0	=	17.65	43	=	6.561
17.0	=	16.61	44	=	6.420
18.0	=	15.69	45	=	6.279
19.0	=	14.86	46	=	6.137
20.0	=	14.12	47	=	5.996
21.0	=	13.44	48	=	5.855
22.0	=	12.83	49	=	5.713
23.0	=	12.27	50	=	5.572

TYRE PRESSURE

lb/in ²	=	kPa	kPa	=	lb/in ²
25	=	172.36	155	=	22.48
26	=	179.26	160	=	23.20
27	=	186.16	165	=	23.93
28	=	193.05	170	=	24.66
29	=	199.95	175	=	25.38
30	=	206.84	180	=	26.11
31	=	213.74	185	=	26.83
32	=	220.63	190	=	27.56
33	=	227.53	195	=	28.28
34	=	234.42	200	=	29.00
35	=	241.31	205	=	29.73

SPEED

km/h	=	mile/h	mile/h	=	km/h
5.00	=	3.12	10	=	16
10.00	=	6.25	15	=	24
15.00	=	9.37	20	=	32
20.00	=	12.50	25	=	40
25.00	=	15.62	30	=	48
30.00	=	18.75	35	=	56
35.00	=	21.87	40	=	64
40.00	=	25.00	45	=	72
45.00	=	28.12	50	=	80
50.00	=	31.25	55	=	88
55.00	=	34.37	60	=	96
60.00	=	37.50	65	=	104
65.00	=	40.62	70	=	112
70.00	=	43.75	75	=	120
75.00	=	46.87	80	=	128
80.00	=	50.00	85	=	136
85.00	=	53.12	90	=	144
90.00	=	56.25	95	=	152
95.00	=	59.37	100	=	160
100.00	=	62.50	105	=	168
105.00	=	65.62	110	=	176
110.00	=	68.75	115	=	184
115.00	=	71.87	120	=	192
120.00	=	75.00	125	=	200
130.00	=	81.25	130	=	208
140.00	=	87.50	135	=	216
150.00	=	93.75	140	=	224

IMPERIAL SYSTEM

LENGTH

1000 milli-inches	=	1 inch
12 inches	=	1 foot
3 feet	=	1 yard
5.5 yards	=	1 rod
220 yards	=	1 furlong
40 rods	=	1 furlong
5280 feet	=	1 mile
1760 yards	=	1 mile
8 furlongs	=	1 mile
3 miles	=	1 league
25 links	=	1 rod
100 links	=	1 chain
66 feet	=	1 chain
22 yards	=	1 chain
4 rods	=	1 chain

LENGTH (NAUTICAL)

6 feet	=	1 fathom
100 fathoms	=	1 cable length (approx)
10 cable lengths	=	1 nautical mile

AREA

144 sq ins	=	1 sq foot
9 sq feet	=	1 sq yard
30.25 sq	=	1 sq rod
484 sq yds	=	1 sq chain
1210 sq yds	=	1 rood
4840 sq yds	=	1 acre
160 sq rods	=	1 acre
640 acres	=	1 sq mile

AVOIRDUPOIS WEIGHT

437.5 grains	=	1 ounce
16 drams	=	1 ounce
7000 grains	=	1 pound
256 drams	=	1 pound
16 ounces	=	1 pound
14 pounds	=	1 stone
2 stones	=	1 quarter
100 pounds	=	1 cental
112 pounds	=	1 cwt
4 quarters	=	1 cwt
35840 ounces	=	1 ton
2240 pounds	=	1 ton
20 cwts	=	1 ton

APOTHECARIES' WEIGHT

20 grains	=	1 scuple
3 scuples	=	1 dram
8 drams	=	1 ounce
12 ounces	=	1 pound

Ounce and pound are the same as in Troy Weight.

TROY WEIGHT

24 grains	=	1 pwt
20 pwt	=	1 ounce
12 ounces	=	1 pound

Used for weighting gold, silver and jewels.

VOLUME

1728 cu ins	=	1 cu foot
46656 cu ins	=	1 cu yard
27 cu ins	=	1 cu yard

CAPACITY

8 fluid drams	=	1 fluid ounce
5 fluid ounces	=	1 gill
20 fluid ounces	=	1 pint
4 gills	=	1 pint
40 fluid ounces	=	1 quart
2 pints	=	1 quart
160 fluid ounces	=	1 gallon
8 pints	=	1 gallon
4 quarts	=	1 gallon
2 gallons	=	1 peck
4 pecks	=	1 bushel
8 gallons	=	1 bushel
64 gallons	=	1 quarter
31 1/2 gallons	=	1 barrel
2 barrels	=	1 hogshead

MARINERS' MEASURE

6 feet	=	1 fathom
120 fathoms	=	1 cable length
7 1/2 cable lengths	=	1 mile
5,280.2 feet	=	1 statute mile
6,080.2 feet	=	1 nautical mile

SURVEYORS' MEASURE

7.92 inches	=	1 link
25 links	=	1 rod
4 rods	=	1 chain
10 sq chains	=	1 acre
or 160 sq rods		
640 acres	=	1 square mile
36 sq miles	=	1 township (6 miles sq)

METRIC SYSTEM

LENGTH

1000 picometres	=	1 nanometre
1000 nanometres	=	1 micrometre
1000 micrometres	=	1 millimetre
10 millimetres	=	1 centimetre
100 millimetres	=	1 decimetre
10 centimetres	=	1 decimetre
1000 millimetres	=	1 metre
100 millimetres	=	1 metre
10 decimetres	=	1 metre
100 metres	=	1 hectometre
1000 metres	=	1 kilometre
1852 nautical metres	=	1 international nautical mile

AREA

100 sq millimetres	=	1 sq centimetre
100 sq centimetres	=	1 sq decimetre
10 000 sq centimetres	=	1 sq metre
100 sq decimetres	=	1 sq metre
10 000 sq metres	=	1 hectare
100 hectares	=	1 sq kilometre

MASS

1000 micrograms	=	1 milligram
200 milligrams	=	1 metric carat
1000 milligrams	=	1 gram
5 metric carats	=	1 gram
1000 grams	=	1 kilogram
1000 kilograms	=	1 megagram = 1 tonne

ENERGY (WORK & HEAT)

1000 millijoules	=	1 joule
1000 joules	=	1 kilojoule
1000 kilojoules	=	1 megajoule
3.6 megajoules	=	1 kilowatt hour
1000 megajoules	=	1 gigajoule
1000 gigajoules	=	1 terajoule

TIME

1000 nanoseconds	=	1 microsecond
1000 microseconds	=	1 millisecond
1000 milliseconds	=	1 second
1000 seconds	=	1 kilosecond

VELOCITY

3.6 kilometres per hour	=	1 metre per second
3600 kilometres per hour	=	1 kilometre per second

ELECTRICITY & MAGNETISM

1000 picoamperes	=	1 nanoampere
1000 nanoamperes	=	1 microampere
1000 microamperes	=	1 milliampere
1000 milliampere	=	1 ampere
1000 amperes	=	1 kiloampere
1000 millicoulombs	=	1 coulomb
1000 coulombs	=	1 kilocoulomb
1000 coulombs	=	1 kilocoulomb
1000 millivolts	=	1 millivolt
1000 millivolts	=	1 volt
1000 volts	=	1 kilovolt
1000 kilovolts	=	1 megavolt
1000 microhms	=	1 milliohm
1000 milliohms	=	1 ohm
1000 ohms	=	1 kilohm
1000 kilohms	=	1 megohm
1000 megohms	=	1 gigohm
1000 millisiemens	=	1 siemen
1000 millihenrys	=	1 henry
1000 milliteslas	=	1 tesla

POWER

1000 microwatts	=	1 milliwatt
1000 milliwatts	=	1 watt
1000 watts	=	1 kilowatt
1000 kilowatts	=	1 megawatt
1000 megawatts	=	1 gigawatt
1000 gigawatts	=	1 terawatt

VOLUME & CAPACITY

1000 cu millimetres	=	1 cu millimetre
1000 centimetres	=	1 cu decimetre
1000 cu decimetres	=	1 cu metre
1 millilitre	=	1 centimetre
10 millilitres	=	1 centilitre
10 centilitres	=	1 decilitre
1000 millilitres	=	1 litre
100 centilitres	=	1 litre
100 litres	=	1 hectolitre
1000 litres	=	1 kilolitre
	=	1 cu metre
10 hectolitres	=	1 kilolitre

PRESSURE AND STRESS

1000 micropascals	=	1 millipascal
1000 millipascals	=	1 pascal
100 pascals	=	1 millibar
1000 pascals	=	1 kilopascal
10 millibars	=	1 kilopascal
1000 kilopascals	=	1 megapascal
1000 megapascals	=	1 gigapascal

DENSITY & CONCENTRATION

1 gram per cu metre	=	1 milligram per cu decimetre
	=	1 gram per cu decimetre
1000 milligrams per cu decimetre	=	1 kilogram per cu metre
1000 kilograms per metre	=	1 tonne per cu metre = 1 kilogram per cu decimetre

FORCE

1000 micronewtons	=	1 micronewton
1000 millinewtons	=	1 newton
1000 newtons	=	1 kilonewton
1000 kilonewtons	=	1 meganewton

