T +44 (0)1727 875566 F +44 (0)1727 875546

Measurement Conversions

LENGTH

METRIC		IMPERIAL
1 MILLIMETRE	=	0.0394 INCHES
1 CENTIMETRE	=	0.3937 INCHES
1 METRE	=	1.0936 YARDS

IMPERIAL		METRIC
1 INCH	=	2.54 CENTIMETRES
1 FOOT	=	0.3048 METRES
1 YARD	=	0.9144 METRES

AREA

METRIC		IMPERIAL
1 SQUARE CENTIMETRE	=	0.1550 SQUARE INCHES
1 SQUARE METRE	=	1.1960 SQUARE YARDS

IMPERIAL		METRIC
1 SQUARE INCH	=	6.4516 SQUARE CENTIMETRES
1 SQUARE FOOT	=	0.0929 SQUARE METRES
1 SQUARE YARD	=	0.8361 SQUARE METRES

WEIGHT

METRIC		IMPERIAL
1 MILLIGRAM	=	0.0154 GRAINS
1 GRAM	=	0.0353 OUNCES
1 KILOGRAM	=	2.2046 POUNDS
1 TONNE	=	0.9842 TONS

IMPERIAL		METRIC
1 OUNCE	=	28.35 GRAMS
1 POUND	=	0.4536 KILOGRAMS
1 STONE	=	6.3503 KILOGRAMS
1 HUNDREDWEIGHT	=	50.802 KILOGRAMS
1 TON	=	1.016 TONNES

VOLUME

METRIC		IMPERIAL
1 CUBIC CENTIMETRE	=	0.0610 CUBIC INCHES
1 CUBIC DECIMETRE	=	0.0353 CUBIC FEET
1 CUBIC METRE	=	1.3080 CUBIC YARDS

IMPERIAL		METRIC
1 CUBIC INCH	=	16.387 CUBIC CENTIMETRES
1 CUBIC FOOT	=	0.0283 CUBIC METRES

DENSITY

METRIC		IMPERIAL
1 GRAM PER CUBIC CENTIMETRE	=	0.0361 POUNDS PER CUBIC INCH

IMPERIAL		METRIC
1 POUND PER CUBIC INCH	=	27.679 GRAMS PER CUBIC CENTIMETRE

PRESSURE

METRIC		IMPERIAL
1 GRAM PER SQUARE CENTIMETRE	=	0.0142 POUNDS PER SQUARE INCH
1 KILOGRAM PER SQUARE CENTIMETRE	=	14.223 POUNDS PER SQUARE INCH

IMPERIAL		METRIC
1 POUND PER SQUARE INCH	=	70.307 GRAMS PER SQUARE CENTIMETRE
1 POUND PER SQUARE INCH	=	0.0703 KILOGRAMS PER SQUARE CENTIMETRE

Measurement Conversions (continued)

Hardness Comparison Table

HV HARDNESS VICKERS (VPN)	HB HARDNESS BRINNEL	HRA HARDNESS ROCKWELL A-SCALE	HRB HARDNESS ROCKWELL B-SCALE	HRC HARDNESS ROCKWELL C-SCALE	HRD HARDNESS ROCKWELL D-SCALE
410	388	71.4	-	41.8	56.8
400	379	70.8	-	40.8	56.0
390	369	70.3	-	39.8	55.2
380	360	69.8	(110.0)	38.8	54.4
370	350	69.2	-	37.7	53.6
360	341	68.7	(109.0)	36.6	52.8
350	331	68.1	-	35.5	51.9
340	322	67.6	(108.0)	34.4	51.1
330	313	67.0	-	33.3	50.2
320	303	66.4	(107.0)	32.2	49.4
310	294	65.8	-	31.0	48.4
300	284	65.2	(105.5)	29.8	47.5
295	280	64.8	-	29.2	47.1
290	275	64.5	(104.5)	28.5	46.5
285	270	64.2	-	27.8	46.0
280	265	63.8	(103.5)	27.1	45.3
275	261	63.5	-	26.4	44.9
270	256	63.1	(102.0)	25.4	44.3
265	252	62.7	-	24.8	43.7
260	247	62.4	(101.0)	24.0	43.1
255	243	62.0	-	23.1	42.2
250	238	61.6	99.5	22.2	41.7
245	233	61.2	-	21.3	41.1
240	228	60.7	98.1	20.3	40.3
230	219	-	96.7	(18.0)	-
220	209	-	95.0	(15.7)	-
210	200	-	93.4	(13.4)	-
200	190	-	91.5	(11.0)	-
190	181	-	89.4	(8.5)	-
180	171	-	87.1	(6.0)	-
170	162	-	85.0	(3.0)	-
160	152	-	81.7	(0.0)	-
150	143	-	78.7	-	-
140	133	-	75.0	-	-
130	124	-	71.2	-	-
120	114	-	66.7	-	-
110	105	-	62.3	-	-
100	95	-	56.2	-	-
95	90	-	52.0	-	-
90	86	-	48.0	-	-
85	81	-	41.0	-	-