

HARDNESS CONVERSION CHART

THESE TABLES WERE DESIGNED FOR QUICK AND EASY REFERENCE

BRINELL HARDNESS, ROCKWELL HARDNESS, TENSILE STRENGTH

BRINELL HARDNESS	ROCKWELL HARDNESS			TENSILE STRENGTH
BHN (TUNGSTEN CARBIDE BALL 3000 KG)	HRA TUNGSTEN CARBIDE	HRB ALUMINUM, BRASS & SOFT STEELS	HRC HARD STEELS >B100	(PSI)
111	-	66	-	56,000
116	-	68	-	58,000
121	-	70	-	60,000
126	-	72	-	63,000
131	-	74	-	65,000
137	-	76	-	67,000
143	-	79	-	71,000
149	-	81	-	73,000
156	-	83	-	76,000
163	-	85	-	79,000
167	-	86	-	81,000
170	-	87	-	83,000
174	-	88	-	85,000
179	-	89	-	87,000
183	-	90	-	89,000
187	-	91	-	90,000
192	-	92	-	93,000
197	-	93	-	95,000
201	-	94	15	98,000
207	-	95	16	100,000
212	-	96	17	102,000
217	-	96	18	105,000
223	-	97	20	109,000
229	61	98	20	111,000
235	61	99	22	115,000
241	62	100	23	118,000
248	62	-	24	122,000
255	63	-	25	126,000
262	64	-	27	129,000
269	64	-	28	133,000
277	65	-	29	137,000
285	65	-	30	141,000
293	66	-	31	145,000
302	66	-	32	150,000
311	67	-	33	155,000
321	68	-	34	160,000
331	68	-	36	166,000
341	69	-	37	170,000
352	69	-	38	176,000
363	70	-	39	182,000
375	71	-	40	188,000
388	71	-	42	195,000
401	72	-	43	202,000
415	73	-	44	210,000
429	73	-	46	217,000
444	74	-	47	225,000
461	75	-	48	235,000
477	76	-	50	243,000
495	76	-	51	253,000
514	77	-	52	263,000
534	78	-	54	274,000
555	78	-	55	285,000
578	79	-	56	297,000
601	80	-	57	309,000
627	80	-	59	323,000
630	81	-	59	324,000
638	81	-	59	329,000
647	81	-	60	-
653	81	-	60	-
656	81	-	60	-
670	82	-	61	-
684	82	-	62	-
698	83	-	62	-
710	83	-	63	-
722	83	-	64	-
733	84	-	65	-
745	84	-	65	-
767	85	-	66	-

DECIMAL CONVERSION CHART

CONVERT FRACTIONS TO DECIMALS AND MILLIMETERS AND REVERSE

QUICK MEASUREMENT GUIDE

FRACTION	MM	DECIMAL	FRACTION	MM	DECIMAL	FRACTION	MM	DECIMAL
	0.0059	0.15	9/64	0.1406	3.57	25/64	0.3906	9.92
	0.0079	0.20		0.1417	3.60		0.3937	10.00
	0.0098	0.25		0.1457	3.70	13/32	0.4063	10.32
	0.0118	0.30		0.1496	3.80		0.4134	10.50
	0.0138	0.35		0.1535	3.90	27/64	0.4219	10.72
1/64	0.0156	0.40	5/32	0.1563	3.97		0.4331	11.00
	0.0177	0.45		0.1575	4.00	7/16	0.4375	11.11
	0.0197	0.50		0.1654	4.20		0.4528	11.50
	0.0217	0.55		0.1693	4.30	29/64	0.4531	11.51
	0.0236	0.60	11/64	0.1719	4.37	15/32	0.4688	11.91
	0.0256	0.65		0.1732	4.40		0.4724	12.00
	0.0276	0.70		0.1772	4.50	31/64	0.4844	12.30
	0.0295	0.75		0.1811	4.60		0.4921	12.50
1/32	0.0313	0.79	3/16	0.1875	4.76	1/2	0.5000	12.70
	0.0335	0.85		0.1882	4.78		0.5118	13.00
	0.0354	0.90		0.1890	4.80	33/64	0.5156	13.10
	0.0374	0.95		0.1909	4.85	17/32	0.5313	13.49
	0.0394	1.00		0.1929	4.90		0.5315	13.50
	0.0413	1.05		0.1949	4.95	35/64	0.5469	13.89
	0.0433	1.10		0.1969	5.00		0.5512	14.00
	0.0453	1.15		0.2008	5.10	9/16	0.5625	14.29
3/64	0.0469	1.19	13/64	0.2031	5.16		0.5709	14.50
	0.0492	1.25		0.2047	5.20	37/64	0.5781	14.68
	0.0512	1.30		0.2087	5.30		0.5906	15.00
	0.0531	1.35		0.2165	5.50	19/32	0.5938	15.08
	0.0551	1.40	7/32	0.2188	5.56	39/64	0.6094	15.48
	0.0571	1.45		0.2205	5.60		0.6102	15.50
	0.0591	1.50		0.2224	5.65	5/8	0.6250	15.88
	0.0610	1.55		0.2244	5.70		0.6299	16.00
1/16	0.0625	1.59		0.2283	5.80	41/64	0.6406	16.27
	0.0630	1.60	15/64	0.2344	5.95		0.6496	16.50
	0.0669	1.70		0.2362	6.00	21/32	0.6563	16.67
	0.0689	1.75		0.2441	6.20		0.6693	17.00
	0.0709	1.80		0.2480	6.30	43/64	0.6719	17.07
	0.0728	1.85	1/4	0.2500	6.35	11/16	0.6875	17.46
	0.0748	1.90		0.2520	6.40		0.6890	17.50
	0.0768	1.95		0.2539	6.45	45/64	0.7031	17.86
5/64	0.0781	1.98		0.2559	6.50		0.7087	18.00
	0.0787	2.00		0.2598	6.60	23/32	0.7188	18.26
	0.0807	2.05	17/64	0.2656	6.75		0.7283	18.50
	0.0846	2.15		0.2677	6.80	47/64	0.7344	18.65
	0.0866	2.20		0.2717	6.90		0.7480	19.00
	0.0886	2.25		0.2756	7.00	3/4	0.7500	19.05
	0.0906	2.30	9/32	0.2813	7.14	49/64	0.7656	19.45
	0.0925	2.35		0.2835	7.20		0.7677	19.50
3/32	0.0938	2.38		0.2874	7.30	25/32	0.7813	19.84
	0.0945	2.40		0.2913	7.40		0.7874	20.00
	0.0965	2.45		0.2953	7.50	51/64	0.7969	20.24
	0.0984	2.50	19/64	0.2969	7.54		0.8071	20.50
	0.1024	2.60		0.2992	7.60	13/16	0.8125	20.64
	0.1043	2.65		0.3071	7.80		0.8268	21.00
	0.1063	2.70	5/16	0.3125	7.94	53/64	0.8281	21.03
	0.1083	2.75		0.3150	8.00	27/32	0.8438	21.43
7/64	0.1094	2.78		0.3189	8.10		0.8465	21.50
	0.1102	2.80		0.3228	8.20	55/64	0.8594	21.83
	0.1122	2.85		0.3248	8.25		0.8661	22.00
	0.1142	2.90		0.3268	8.30	7/8	0.8750	22.23
	0.1161	2.95	21/64	0.3281	8.33		0.8858	22.50
	0.1181	3.00		0.3307	8.40	57/64	0.8906	22.62
	0.1201	3.05		0.3346	8.50		0.9055	23.00
	0.1220	3.10		0.3386	8.60	29/32	0.9063	23.02
	0.1240	3.15		0.3425	8.70	59/64	0.9219	23.42
1/8	0.1250	3.18	11/32	0.3438	8.73		0.9252	23.50
	0.1260	3.20		0.3465	8.80	15/16	0.9375	23.81
	0.1299	3.30		0.3543	9.00		0.9449	24.00
	0.1319	3.35	23/64	0.3594	9.13	61/64	0.9531	24.21
	0.1339	3.40		0.3622	9.20		0.9646	24.50
	0.1358	3.45		0.3661	9.30	31/32	0.9688	24.61
	0.1378	3.50		0.3701	9.40	63/64	0.9843	25.00
	0.1398	3.55	3/8	0.3750	9.53	1	1.0000	25.40