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09021.....	50	09088.....	46	09155.....	49	09222.....	46	09289.....	72	09356.....	19	09423.....	42
09022.....	45	09089.....	51	09156.....	44	09223.....	51	09290.....	72	09357.....	18	09424.....	36
09023.....	50	09090.....	46	09157.....	49	09224.....	46	09291.....	72	09358.....	19	09425.....	37
09024.....	45	09091.....	51	09158.....	45	09225.....	51	09292.....	72	09359.....	18	09426.....	38
09025.....	50	09092.....	46	09159.....	50	09226.....	46	09293.....	72	09360.....	19	09427.....	39
09026.....	45	09093.....	51	09160.....	45	09227.....	51	09294.....	72	09361.....	18	09428.....	40
09027.....	50	09094.....	46	09161.....	50	09228.....	46	09295.....	72	09362.....	19	09429.....	41
09028.....	45	09095.....	51	09162.....	45	09229.....	51	09296.....	72	09363.....	18	09430.....	42
09029.....	50	09096.....	46	09163.....	50	09230.....	46	09297.....	72	09364.....	19	09431.....	36
09030.....	45	09097.....	51	09164.....	45	09231.....	51	09298.....	25	09365.....	18	09432.....	37
09031.....	50	09098.....	46	09165.....	50	09232.....	46	09299.....	24	09366.....	19	09433.....	38
09032.....	45	09099.....	51	09166.....	45	09233.....	51	09300.....	25	09367.....	18	09434.....	39
09033.....	50	09100.....	46	09167.....	50	09234.....	46	09301.....	24	09368.....	19	09435.....	40
09034.....	45	09101.....	51	09168.....	45	09235.....	51	09302.....	25	09369.....	18	09436.....	41
09035.....	50	09102.....	46	09169.....	50	09236.....	46	09303.....	24	09370.....	19	09437.....	42
09036.....	45	09103.....	51	09170.....	45	09237.....	51	09304.....	25	09371.....	18	09438.....	36
09037.....	50	09104.....	46	09171.....	50	09238.....	46	09305.....	24	09372.....	19	09439.....	37
09038.....	45	09105.....	51	09172.....	45	09239.....	51	09306.....	25	09373.....	18	09440.....	38
09039.....	50	09106.....	46	09173.....	50	09240.....	46	09307.....	24	09374.....	19	09441.....	39
09040.....	45	09107.....	51	09174.....	45	09241.....	51	09308.....	25	09375.....	18	09442.....	40
09041.....	50	09108.....	46	09175.....	50	09242.....	46	09309.....	24	09376.....	19	09443.....	41
09042.....	45	09109.....	51	09176.....	45	09243.....	51	09310.....	25	09377.....	18	09444.....	42
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09045.....	50	09112.....	46	09179.....	50	09246.....	46	09313.....	24	09380.....	19	09447.....	38
09046.....	45	09113.....	51	09180.....	45	09247.....	51	09314.....	25	09381.....	18	09448.....	39
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09048.....	45	09115.....	51	09182.....	45	09249.....	51	09316.....	25	09383.....	18	09450.....	41
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09056.....	45	09123.....	51	09190.....	45	09257.....	51	09324.....	25	09391.....	18	09458.....	42
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09060.....	45	09127.....	48	09194.....	45	09261.....	51	09328.....	25	09395.....	18	09462.....	39
09061.....	50	09128.....	43	09195.....	50	09262.....	47	09329.....	24	09396.....	19	09463.....	40
09062.....	46	09129.....	48	09196.....	45	09263.....	51	09330.....	25	09397.....	18	09464.....	41
09063.....	50	09130.....	43	09197.....	50	09264.....	47	09331.....	24	09398.....	19	09465.....	42
09064.....	46	09131.....	48	09198.....	45	09265.....	51	09332.....	25	09399.....	18	09466.....	36
09065.....	50	09132.....	43	09199.....	50	09266.....	73	09333.....	24	09400.....	19	09467.....	37
09066.....	46	09133.....	48	09200.....	45	09267.....	73	09334.....	25	09401.....	18	09468.....	38
09067.....	50	09134.....	44	09201.....	50	09268.....	73	09335.....	24	09402.....	19	09469.....	39
09068.....	46	09135.....	49	09202.....	46	09269.....	73	09336.....	25	09403.....	18	09470.....	40
09069.....	51	09136.....	44	09203.....	50	09270.....	72	09337.....	24	09404.....	19	09471.....	41
09070.....	46	09137.....	49	09204.....	46	09271.....	72	09338.....	25	09405.....	18	09472.....	42
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09072.....	46	09139.....	49	09206.....	46	09273.....	72	09340.....	25	09407.....	40	09474.....	37
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09076.....	46	09143.....	49	09210.....	46	09277.....	73	09344.....	25	09411.....	37	09478.....	41
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09542.....	42	09601.....	29	09660.....	34	09719.....	28	09778.....	33	09837.....	61		

# Decimal Equivalents

Fraction • Number • Letter • Metric Sizes

INCH	METRIC	DECIMAL EQUIVALENT	INCH	METRIC	DECIMAL EQUIVALENT	INCH	METRIC	DECIMAL EQUIVALENT	INCH	METRIC	DECIMAL EQUIVALENT	INCH	METRIC	DECIMAL EQUIVALENT	INCH	METRIC	DECIMAL EQUIVALENT
–	0,10	0.0039	–	1,60	0.0630	9/64	3,57	0.1406	#1	5,79	0.2280	R	8,61	0.3390	–	13,00	0.5118
–	0,20	0.0079	#52	1,61	0.0635	–	3,60	0.1417	–	5,80	0.2283	–	8,70	0.3425	33/64	13,10	0.5156
–	0,25	0.0098	–	1,65	0.0650	#27	3,66	0.1440	–	5,90	0.2323	11/32	8,73	0.3438	17/32	13,49	0.5312
–	0,30	0.0118	#51	1,70	0.0669	–	3,70	0.1457	A	5,94	0.2340	–	8,75	0.3445	–	13,50	0.5315
#80	0,34	0.0135	–	1,75	0.0689	#26	3,73	0.1470	15/64	5,95	0.2344	–	8,80	0.3465	35/64	13,89	0.5469
–	0,35	0.0138	#50	1,78	0.0700	–	3,75	0.1476	–	6,00	0.2362	S	8,84	0.3480	–	14,00	0.5512
#79	0,37	0.0145	–	1,80	0.0709	#25	3,80	0.1495	B	6,05	0.2380	–	8,90	0.3504	9/16	14,29	0.5625
1/64	0,40	0.0156	#49	1,85	0.0728	–	3,80	0.1496	–	6,10	0.2402	–	9,00	0.3543	–	14,50	0.5709
#78	0,41	0.0160	–	1,90	0.0748	#24	3,86	0.1520	C	6,15	0.2420	T	9,09	0.3580	37/64	14,68	0.5781
–	0,45	0.0177	#48	1,93	0.0760	–	3,90	0.1535	–	6,20	0.2441	–	9,10	0.3583	–	15,00	0.5906
#77	0,46	0.0180	–	1,95	0.0768	#23	3,91	0.1540	D	6,25	0.2461	23/64	9,13	0.3594	19/32	15,08	0.5938
–	0,50	0.0197	5/64	1,98	0.0781	5/32	3,97	0.1562	–	6,30	0.2480	–	9,20	0.3622	39/64	15,48	0.6094
#76	0,51	0.0200	#47	1,99	0.0785	#22	3,99	0.1570	E	6,35	0.2500	–	9,25	0.3642	–	15,50	0.6102
#75	0,53	0.0210	–	2,00	0.0787	–	4,00	0.1575	1/4	6,35	0.2500	–	9,30	0.3661	5/8	15,88	0.6250
–	0,55	0.0217	–	2,05	0.0807	#21	4,04	0.1590	–	6,40	0.2520	U	9,35	0.3680	–	16,00	0.6299
#74	0,57	0.0225	#46	2,06	0.0810	#20	4,09	0.1610	–	6,50	0.2559	–	9,40	0.3701	41/64	16,27	0.6406
–	0,60	0.0236	#45	2,08	0.0820	–	4,10	0.1614	F	6,53	0.2570	–	9,50	0.3740	–	16,50	0.6496
#73	0,61	0.0240	–	2,10	0.0827	–	4,20	0.1654	–	6,60	0.2598	3/8	9,53	0.3750	21/32	16,67	0.6562
#72	0,64	0.0250	–	2,15	0.0846	#19	4,22	0.1660	G	6,63	0.2610	V	9,56	0.3770	–	17,00	0.6693
–	0,65	0.0256	#44	2,18	0.0860	–	4,25	0.1673	–	6,70	0.2638	–	9,60	0.3780	43/64	17,07	0.6719
#71	0,66	0.0260	–	2,20	0.0866	–	4,30	0.1693	17/64	6,75	0.2656	–	9,70	0.3819	11/16	17,46	0.6875
–	0,70	0.0276	–	2,25	0.0886	#18	4,31	0.1695	H	6,76	0.2667	–	9,75	0.3839	–	17,50	0.6890
#70	0,71	0.0280	#43	2,26	0.0890	11/64	4,37	0.1719	–	6,80	0.2677	W	9,80	0.3858	45/64	17,86	0.7031
#69	0,74	0.0292	–	2,30	0.0906	#17	4,39	0.1730	–	6,90	0.2717	–	9,90	0.3898	–	18,00	0.7087
–	0,75	0.0295	–	2,35	0.0925	–	4,40	0.1732	I	6,91	0.2720	25/64	9,92	0.3906	23/32	18,26	0.7188
#68	0,79	0.0310	#42	2,37	0.0935	#16	4,50	0.1770	–	7,00	0.2756	–	10,00	0.3937	–	18,50	0.7283
1/32	0,79	0.0313	3/32	2,38	0.0938	–	4,50	0.1772	J	7,04	0.2770	X	10,08	0.3970	47/64	18,65	0.7344
–	0,80	0.0315	–	2,40	0.0945	#15	4,57	0.1800	–	7,10	0.2795	–	10,10	0.3976	–	19,00	0.7480
#67	0,81	0.0320	#41	2,44	0.0960	–	4,60	0.1811	K	7,14	0.2810	–	10,20	0.4016	3/4	19,05	0.7500
#66	0,84	0.0330	–	2,45	0.0965	#14	4,62	0.1820	9/32	7,14	0.2812	Y	10,26	0.4040	49/64	19,45	0.7656
–	0,85	0.0335	#40	2,50	0.0984	#13	4,70	0.1850	–	7,20	0.2835	–	10,30	0.4055	–	19,50	0.7677
#65	0,89	0.0350	#39	2,53	0.0995	–	4,75	0.1870	–	7,25	0.2854	13/32	10,32	0.4062	25/32	19,84	0.7812
–	0,90	0.0354	#38	2,58	0.1015	3/16	4,76	0.1875	–	7,30	0.2874	–	10,40	0.4094	–	20,00	0.7874
#64	0,91	0.0360	–	2,60	0.1024	#12	4,80	0.1890	L	7,37	0.2900	Z	10,49	0.4130	51/64	20,24	0.7969
#63	0,94	0.0370	#37	2,64	0.1040	#11	4,85	0.1910	–	7,40	0.2913	–	10,50	0.4134	–	20,50	0.8071
–	0,95	0.0374	–	2,70	0.1063	–	4,90	0.1929	M	7,49	0.2950	–	10,60	0.4173	13/16	20,64	0.8125
#62	0,97	0.0380	#36	2,71	0.1065	#10	4,91	0.1935	–	7,50	0.2953	–	10,70	0.4213	–	21,00	0.8268
#61	0,99	0.0390	–	2,75	0.1083	#9	4,98	0.1960	19/64	7,54	0.2969	27/64	10,72	0.4219	53/64	21,03	0.8281
–	1,00	0.0394	7/64	2,78	0.1094	–	5,00	0.1969	–	7,60	0.2992	–	10,80	0.4252	27/32	21,43	0.8438
#60	1,02	0.0400	#35	2,79	0.1100	#8	5,05	0.1990	N	7,67	0.3020	–	10,90	0.4291	–	21,50	0.8465
#59	1,04	0.0410	–	2,80	0.1102	–	5,10	0.2008	–	7,70	0.3031	–	11,00	0.4331	55/64	21,84	0.8594
–	1,05	0.0413	#34	2,82	0.1110	#7	5,11	0.2010	–	7,75	0.3051	–	11,10	0.4370	–	22,00	0.8661
#58	1,07	0.0420	#33	2,87	0.1130	13/64	5,16	0.2031	–	7,80	0.3071	7/16	11,11	0.4375	7/8	22,23	0.8750
#57	1,09	0.0430	–	2,90	0.1142	#6	5,18	0.2040	–	7,90	0.3110	–	11,20	0.4409	–	22,50	0.8858
–	1,10	0.0433	#32	2,95	0.1160	–	5,20	0.2047	5/16	7,94	0.3125	–	11,30	0.4449	57/64	22,62	0.8906
–	1,15	0.0453	–	3,00	0.1181	#5	5,22	0.2055	–	8,00	0.3150	–	11,40	0.4488	–	23,00	0.9055
#56	1,18	0.0465	#31	3,05	0.1200	–	5,25	0.2067	O	8,03	0.3160	–	11,50	0.4528	29/32	23,02	0.9062
3/64	1,19	0.0469	–	3,10	0.1220	–	5,3	0.2087	–	8,10	0.3189	29/64	11,51	0.4531	59/64	23,42	0.9219
–	1,20	0.0472	1/8	3,18	0.1250	#4	5,31	0.2090	–	8,20	0.3228	–	11,60	0.4567	–	23,50	0.9252
–	1,25	0.0492	–	3,20	0.1260	–	5,40	0.2126	P	8,20	0.3230	–	11,70	0.4606	15/16	23,81	0.9375
–	1,30	0.0512	–	3,25	0.1280	#3	5,41	0.2130	–	8,25	0.3248	–	11,80	0.4646	–	24,00	0.9449
#55	1,32	0.0520	#30	3,26	0.1285	–	5,50	0.2165	–	8,30	0.3268	–	11,90	0.4685	61/64	24,21	0.9531
–	1,35	0.0531	–	3,30	0.1299	7/32	5,56	0.2188	21/64	8,33	0.3281	15/32	11,91	0.4688	–	24,50	0.9646
#54	1,40	0.0550	–	3,40	0.1339	–	5,60	0.2205	–	8,40	0.3307	–	12,00	0.4724	31/32	24,61	0.9688
#53	1,51	0.0595	#29	3,45	0.1360	#2	5,61	0.2210	Q	8,43	0.3320	31/64	12,30	0.4844	–	25,00	0.9843
–	1,55	0.0610	–	3,50	0.1378	–	5,70	0.2244	–	8,50	0.3346	–	12,50	0.4921	63/64	25,00	0.9844
1/16	1,59	0.0625	#28	3,57	0.1405	–	5,75	0.2264	–	8,60	0.3386	1/2	12,70	0.5000	1	25,40	1.0000

# Hardness Conversion Chart

ROCKWELL HARDNESS (HRb)	ROCKWELL HARDNESS (HRc)	BRINELL HARDNESS (HB)	VICKERS HARDNESS (HV)	TENSILE STRENGTH (N/mm <sup>2</sup> )	PSI (1000lb/in <sup>2</sup> )
67	—	121	122	401	58
70	—	126	127	432	63
73	—	132	132	448	65
75	—	136	137	455	66
77	—	140	143	463	67
80	—	147	150	479	69
82	—	153	156	494	72
84	—	159	163	525	76
86	—	165	171	540	78
89	—	177	178	556	81
91	—	186	188	602	88
93	—	197	196	632	92
96	—	216	212	664	97
97	—	223	218	695	101
98	21	230	234	756	110
—	22	236	241	772	112
—	23	242	247	787	114
—	24	248	255	818	118
—	25	254	261	849	123
—	27	266	269	865	125
—	28	272	275	895	130
—	29	278	284	911	132
—	30	284	292	942	136
—	31	293	300	973	141
—	32	302	308	988	143
—	33	310	318	1019	147
—	34	319	327	1050	152
—	35	328	337	1096	159
—	37	345	349	1127	163
—	38	353	359	1158	168
—	39	362	370	1189	172
—	40	370	381	1235	179
—	41	381	395	1266	183
—	42	391	408	1312	190
—	44	411	422	1359	197
—	45	422	437	1420	206
—	46	433	452	1467	212
—	48	455	470	1513	219
—	50	479	497	1559	226
—	51	485	517	1621	235
—	52	497	532	1668	241
—	54	—	573	1729	250
—	56	—	609	1807	262
—	57	—	630	1884	273
—	59	—	670	1961	284
—	60	—	698	2039	295
—	61	—	725	—	—
—	62	—	740	—	—
—	63	—	780	—	—
—	64	—	812	—	—
—	65	—	847	—	—
—	66	—	885	—	—
—	67	—	926	—	—
—	68	—	971	—	—

Conversions from each scale are approximate

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