

Dimensional Conversion Chart

Inch Fractions	Inch Decimals	Metric mm	Weight per 1000 balls kg	Inch Fractions	Inch Decimals	Metric mm	Weight per 1000 balls kg
1/64	.0156	0.397	.00026	-	.7480	19.000	27.98
-	.0197	0.500	.00051	3/4	.7500	19.050	28.20
1/32	.0312	0.794	.00210	25/32	.7812	19.844	31.87
-	.0394	1.000	.00407	-	.7874	20.000	32.63
3/64	.0469	1.190	.00688	13/16	.8125	20.637	35.85
-	.0472	1.200	.00704	-	.8268	21.000	37.77
-	.0590	1.500	.01377	27/32	.8437	21.431	40.15
1/16	.0625	1.588	.01632	-	.8661	22.000	43.43
5/64	.0781	1.984	.03187	7/8	.8750	22.225	44.78
-	.0787	2.000	.0326	-	.9055	23.000	49.63
3/32	.0937	2.381	.0550	29/32	.9062	23.019	49.75
-	.0984	2.500	.0638	15/16	.9375	23.812	55.07
7/64	.1094	2.778	.0875	-	.9449	24.000	56.39
-	.1181	3.000	.1101	31/32	.9687	24.606	60.77
1/8	.1250	3.175	.1305	-	.9842	25.000	63.73
-	.1378	3.500	.1749	1	1.0000	25.400	66.84
9/64	.1406	3.572	.1859	-	1.0236	26.000	71.69
5/32	.1562	3.969	.2550	1 1/16	1.0625	26.987	80.17
-	.1575	4.000	.2610	-	1.1024	28.000	89.54
11/64	.1719	4.366	.3394	1 1/8	1.1250	28.575	95.17
-	.1772	4.500	.3716	-	1.1811	30.000	110.10
3/16	.1875	4.762	.4406	1 3/16	1.1875	30.162	111.90
-	.1968	5.000	.5099	1 1/4	1.2500	31.750	130.50
-	.2165	5.500	.6786	-	1.2598	32.000	133.70
7/32	.2187	5.556	.6996	1 5/16	1.3125	33.337	151.10
15/64	.2344	5.953	.8605	-	1.3386	34.000	160.30
-	.2362	6.000	.8810	1 3/8	1.3750	34.925	173.80
1/4	.2500	6.350	1.044	-	1.3780	35.000	174.90
-	.2559	6.500	1.120	-	1.4173	36.000	190.30
17/64	.2656	6.747	1.253	1 7/16	1.4375	36.512	198.50
-	.2756	7.000	1.399	-	1.4960	38.000	223.80
9/32	.2812	7.144	1.487	1 1/2	1.5000	38.100	225.60
-	.2953	7.500	1.721	1 9/16	1.5625	39.687	255.00
19/64	.2969	7.541	1.749	-	1.5748	40.000	261.00
5/16	.3125	7.938	2.040	1 5/8	1.6250	41.275	286.00
-	.3150	8.000	2.088	1 11/16	1.6875	42.862	321.20
-	.3346	8.500	2.505	1 3/4	1.7500	44.450	358.20
11/32	.3437	8.731	2.715	-	1.7716	45.000	371.70
-	.3543	9.000	2.973	1 13/16	1.8125	46.037	398.00
23/64	.3594	9.128	3.102	1 7/8	1.8750	47.625	440.60
-	.3740	9.500	3.497	1 15/16	1.9375	49.212	486.10
3/8	.3750	9.525	3.525	-	1.9685	50.000	509.90
25/64	.3906	9.922	3.983	2	2.0000	50.800	534.70
-	.3937	10.000	4.079	2 1/8	2.1250	53.975	641.40
13/32	.4062	10.319	4.481	-	2.1653	55.000	678.60
-	.4331	11.000	5.429	2 1/4	2.2500	57.150	761.30
7/16	.4375	11.112	5.597	-	2.3622	60.000	881.00
-	.4528	11.500	6.203	2 3/8	2.3750	60.325	895.40
29/64	.4531	11.509	6.219	2 1/2	2.5000	63.500	1044.40
15/32	.4687	11.906	6.884	-	2.5590	65.000	1120.10
-	.4724	12.000	7.048	2 5/8	2.6250	66.675	1209.00
31/64	.4844	12.303	7.596	2 3/4	2.7500	69.850	1390.10
1/2	.5000	12.700	8.355	-	2.7559	70.000	1484.70
-	.5118	13.000	8.961	2 7/8	2.8750	73.025	1588.40
17/32	.5312	13.494	10.02	-	2.9528	75.000	1720.70
-	.5512	14.000	11.19	3	3.0000	76.200	1804.70
9/16	.5625	14.288	11.90	3 1/8	3.1250	79.375	2039.80
-	.5905	15.000	13.77	-	3.1500	80.000	2088.30
19/32	.5937	15.081	13.99	3 1/4	3.2500	82.550	2294.40
5/8	.6250	15.875	16.32	-	3.3464	85.000	2530.90
-	.6299	16.000	16.70	3 1/2	3.5000	88.900	2865.70
21/32	.6562	16.669	18.89	-	3.5433	90.000	2993.40
-	.6693	17.000	20.04	-	3.7401	95.000	3521.10
11/16	.6875	17.462	21.72	3 3/4	3.7500	95.250	3524.70
-	.7087	18.000	23.79	-	3.9370	100.000	4078.80
23/32	.7187	18.256	24.82	4	4.0000	101.600	4277.70

The weight shown are based on chrome alloy steel balls, approximate weight for other materials can be obtained by multiplying the weight per 1000 balls by the following figures:

Carbon Steel	1.004	Stainless Steel AISI 302/304	1.011	Brass	1.074
Stainless Steel AISI 420/420	0.979	Stainless Steel AISI 316	1.025	Tungsten Carbide	1.907