

Precision Balls



► Type 440C stainless steel

Corrosion resistant and heat treated for rockwell C58 - C65 hardness.

Conform to ASTM A276.

Inch size balls are grade 24 with a diameter tolerance of ± 0.0007 " and a sphericity of 0.000024".

Metric sizes meet ASTM A756 and are grade 25 with a diameter tolerance of ± 0.0025 mm and sphericity of 0.0006 mm.

► E52100 Alloy steel

Bearing - quality chrome finished steel balls are through - hardened. Rockwell hardness is C60-C67.

Inch sizes conform to ASTM A295.

Balls are grade 25 with a diameter tolerance of ± 0.0001 " and a sphericity of 0.000025" (Unless noted).

440C Steel - Inch Size

Dia.	Pkg. / Qty.	Number	Price ₱
Inch Size			
1/16"	100	5H63 8530	---
5/64"	100	5H63 8531	---
3/32"	100	5H63 8532	---
7/64"	100	5H63 8533	---
1/8"	100	5H63 8534	---
9/64"	100	5H63 8535	---
5/32"	100	5H63 8536	---
3/16"	100	5H63 8537	---
7/32"	100	5H63 8538	---
1/4"	100	5H63 8539	---
17/64"	100	5H63 8540	---
9/32"	100	5H63 8541	---
5/16"	100	5H63 8542	---
11/32"	100	5H63 8543	---
3/8"	100	5H63 8544	---
13/32"	100	5H63 8545	---
7/16"	100	5H63 8546	---
15/32"	100	5H63 8547	---
1/2"	100	5H63 8548	---
9/16"	100	5H63 8549	---
5/8"	100	5H63 8550	---
19/32"	100	6H63 8551	---
5/8"	100	5H63 8552	---

Metric Size

Dia.	Pkg. / Qty.	Number	Price ₱
1.0	100	5H63 2130	---
1.5	100	5H63 2131	---
2.0	100	5H63 2132	---
2.5	100	5H63 2133	---
3.0	100	5H63 2134	---
3.5	100	5H63 2135	---

* Balls are Grade 24 with a sphericity of 0.000024".

E52100 Alloy Steel

Dia.	Pkg. / Qty.	Number	Price ₱
Inch Size			
1/16"	100	6H42 8530	---
1/12"	100	6H43 8531 *	---
3/32"	100	6H44 8532	---
1/8"	100	6H45 8533	---
9/64"	100	6H46 8534	---
5/32"	100	6H47 8535	---
11/64"	100	6H48 8536	---
3/16"	100	6H49 8537	---
7/32"	100	6H50 8538	---
1/4"	100	6H51 8539	---
17/64"	100	6H52 8540	---
9/32"	100	6H53 8541	---
5/16"	100	6H54 8542	---
11/32"	100	6H55 8543	---
3/8"	100	6H56 8544	---
13/32"	100	6H57 8545	---
7/16"	100	6H58 8546	---
15/32"	100	6H59 8547	---
1/2"	100	6H60 8548	---
17/32"	100	6H61 8549	---
9/16"	100	6H62 8550	---
5/8"	100	6H64 8552	---

Metric Size

Dia.	Pkg. / Qty.	Number	Price ₱
1.0	100	6H42 8530	---
1.5	100	6H43 8531	---
2.0	100	6H44 8532	---
2.5	100	6H45 8533	---
3.0	100	6H46 8534	---
3.5	100	6H47 8535	---
4.0	100	6H48 8536	---
4.5	100	6H49 8537	---
5.0	100	6H50 8538	---
5.5	100	6H51 8539	---
6.0	100	6H52 8540	---

Tungsten Carbide Balls

Tungsten carbide balls are used where extreme hardness and wear resistance is required. Used for applications such as bearings, ball screws, valves, coining, pivots, detents and tips for gauges and tracers.

Dia.	Pkg. Qty.	Number	Price ₱	Dia.	Pkg. Qty.	Number	Price ₱	Dia.	Pkg. Qty.	Number	Price ₱
Inch Size											
1/32"	10	9U98 7052	---	5/32"	10	9U98 7057	---	11/32"	10	9U98 7062	---
3/64"	10	9U98 7053	---	3/16"	10	9U98 7058	---	3/8"	10	9U98 7063	---
1/16"	10	9U98 7054	---	7/32"	10	9U98 7059	---	7/16"	10	9U98 7064	---
5/64"	10	9U98 7055	---	1/4"	10	9U98 7060	---	1/2"	10	9U98 7065	---
3/32"	10	9U98 7056	---	9/32"	10	9U98 7061	---	9/16"	10	9U98 7066	---
Metric Size											
1.0	10	2U98 1052	---	3.5	10	2U98 1055	---	7.0	10	2U98 1058	---
2.0	10	2U98 1053	---	4.0	10	2U98 1056	---	8.0	10	2U98 1059	---
3.0	10	2U98 1054	---	5.0	10	2U98 1057	---	10.0	10	2U98 1060	---



- Grade 24
- Sphericity .000024"
- Diameter tolerance ± 0.0001 "
- Hardness : Rockwell A 90.5 to 91.5

Ceramic Ball 99.5% Alumina Oxide



Ceramic balls may be used at temperatures up to 1,748°C. They are extremely hard, resistant to abrasion and immune to all furnace atmospheres. They have good resistance to most corrosive media. They are not recommended for use in hydrochloric or hydrofluoric acids or strong alkaline solutions.

Max. Temp. : 2,000° C low end not rated. Hardness : 1,700 Vickers. Flexural strength : 47,000 psi.

Dia.	Dia. Toler.	Sphericity	Grade	Number	Price ₱
1/8"	± 0.001 "	0.000025"	25	9D99 1011	---
3/16"	± 0.001 "	0.000025"	25	9D99 1012	---
1/4"	± 0.001 "	0.000025"	25	9D99 1013	---
5/16"	± 0.001 "	0.000025"	25	9D99 1014	---
3/8"	± 0.001 "	0.000025"	25	9D99 1015	---