



MBA

2022.1

Ceramic Bearings

Si3N4 Silicon Nitride and ZrO2 Zirconia



To find and order parts online, simply enter the part number from this catalogue into the search box on any web page.

Prefixes and Suffixes

CSN - 6000 - TF - TTS - C3 - SRL					
1	2	3	4	5	6

1 Ceramic Type:

CSN: Ceramic Silicon Nitride Si3N4
CZR: Ceramic Zirconia ZRO2

2 Basic Part:

Basic MBA/ISO Part Number (eg 6000, 694)

3 Cage Material:

FC: Full Complement
NY: Nylon
PK: PEEK
TF: PTFE

4 Seal Type:

None: Open
PPS: Polypropylene
TTS: PTFE

5 Clearance:

None: Standard
C3: C3 Increased Clearance
C4: C4 Increased Clearance

6 Lubricant:

DRY: Unlubricated
AF12: Aeroshell Fluid 12 Oil
SRL: Kyodo Yushi SRL Grease
(Main types listed only)

These are just some of the most commonly used suffixes. Please refer to MBA for information on suffixes not listed.

Bearings - Ceramic Si3N4 - Angular Contact

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / Full Complement/ Open - No Lube	CSN-708-FC-DRY

Bearings - Ceramic Si3N4 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
3.000 (0.118")	7.000 (0.276")	3.000 (0.118")	Silicon Nitride / PEEK Cage/ Open - No Lube	CSN-683A-PK-MC34-DRY
3.000 (0.118")	7.000 (0.276")	3.000 (0.118")	Silicon Nitride / PEEK Cage/ Open - Kyodo Yushi SRL	CSN-683A-PK-MC34-SRL
3.000 (0.118")	8.000 (0.315")	4.000 (0.157")	Silicon Nitride / PTFE Cage - No Lube	CSN-693A-TF-TTS-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-623-PK-TTS-MC34-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN-623-PK-TTS-MC34-SRL
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage/ Open - No Lube	CSN-R2-PK-MC34-DRY
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage/ Open - Kyodo Yushi SRL	CSN-R2-PK-MC34-SRL
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-R2-PK-TTS-MC34-DRY
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN-R2-PK-TTS-MC34-SRL
4.000 (0.157")	8.000 (0.315")	2.000 (0.079")	Silicon Nitride / PTFE Cage/ Open - No Lube	CSN-MR84-TF-DRY
4.000 (0.157")	16.000 (0.630")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-634-TF-TTS-MC34-DRY
4.000 (0.157")	16.000 (0.630")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-634-TF-TTS-MC34-SRL
6.000 (0.236")	15.000 (0.591")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-696-TF-TTS-MC34-DRY
6.000 (0.236")	15.000 (0.591")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-696-TF-TTS-MC34-SRL
6.000 (0.236")	19.000 (0.748")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-626-TF-TTS-MC3-DRY
6.000 (0.236")	19.000 (0.748")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-626-TF-TTS-MC3-SRL
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-627-TF-TTS-MC3-DRY
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-627-TF-TTS-MC3-SRL
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Unknown - Unknown	5S-608ZZ-C3-5K
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-608-TF-TTS-MC34-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-608-TF-TTS-MC34-SRL
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-6800-PK-TTS-DRY
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6800-PK-TTS-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6000-TF-TTS-C3-DRY
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6000-TF-TTS-C3-SRL
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN-6200-FC-DRY
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Silicon Nitride - Full Complement - Open/ Open - Kyodo Yushi SRL	* CSN-6200-FC-SRL
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6901-TF-TTS-DRY
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CSN-6901-TF-TTS-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride - Full Complement / PTFE Seals - No Lube	CSN-6001-FC-TTS-C3-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride - Full Complement / PTFE Seals - Kyodo Yushi SRL	* CSN-6001-FC-TTS-C3-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6001-TF-TTS-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CSN-6001-TF-TTS-SRL
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6201-TF-TTS-C3-DRY
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6201-TF-TTS-C3-SRL
12.000 (0.472")	37.000 (1.457")	12.000 (0.472")	Silicon Nitride - PTFE Cage - Open/ Open - No Lube	CSN-6301-TF-DRY
12.700 (0.500")	28.575 (1.125")	7.938 (0.313")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-R8A-TF-TTS-DRY
12.700 (0.500")	28.575 (1.125")	7.938 (0.313")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-R8A-TF-TTS-SRL
12.700 (0.500")	34.925 (1.375")	11.113 (0.438")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-R12216-PK-TTS-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6802-TF-TTS-C3-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6802-TF-TTS-C3-SRL
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-MR2615-TF-TTS-C3-DRY
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-MR2615-TF-TTS-C3-SRL
15.000 (0.591")	28.00 (1.102")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6902-TF-TTS-C3-DRY
15.000 (0.591")	28.00 (1.102")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6902-TF-TTS-C3-SRL
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6002-TF-TTS-C3-DRY
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CSN-6002-TF-TTS-C3-SRL
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6202-TF-TTS-C3-DRY
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6202-TF-TTS-C3-SRL
15.000 (0.591")	42.000 (1.654")	13.000 (0.512")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN-6302-FC-DRY
17.000 (0.669")	26.000 (1.024")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6803-TF-TTS-DRY
17.000 (0.669")	26.000 (1.024")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6803-TF-TTS-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6903-TF-TTS-C3-DRY
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6903-TF-TTS-C3-SRL
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6003-TF-TTS-C3-DRY
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6003-TF-TTS-C3-SRL
20.000 (0.787")	32.000 (1.260")	7.000 (0.276")	Silicon Nitride / Full Complement/ Open - No Lube	CSN-6804-FC-DRY
20.000 (0.787")	32.000 (1.260")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6804-TF-TTS-DRY
20.000 (0.787")	32.000 (1.260")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6804-TF-TTS-SRL
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6004-TF-TTS-C3-DRY

Bearings - Ceramic Si3N4 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6004-TF-TTS-C3-SRL
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / Full Complement - No Lube	CSN-6204-FC-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6204-TF-TTS-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6204-TF-TTS-SRL
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / Full Complement / PTFE Seals - No Lube	CSN-R14A-FC-TTS-DRY
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / Full Complement / PTFE Seals - Kyodo Yushi SRL	CSN-R14A-FC-TTS-SRL
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-R14A-TF-TTS-DRY
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-R14A-TF-TTS-SRL
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6805-TF-TTS-DRY
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6805-TF-TTS-SRL
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6905-TF-TTS-C3-DRY
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6905-TF-TTS-C3-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6005-TF-TTS-C3-DRY
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6005-TF-TTS-C3-SRL
25.000 (0.984")	62.000 (2.441")	17.000 (0.669")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN-6305-FC-DRY
25.000 (0.984")	62.000 (2.441")	17.000 (0.669")	Silicon Nitride - PTFE Cage - Open/ Open - No Lube	CSN-6305-TF-DRY
35.000 (1.378")	47.000 (1.850")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6807-TF-TTS-C3-DRY
35.000 (1.378")	62.000 (2.441")	20.000 (0.787")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6007-TF-TTS-C3-DRY
50.000 (1.969")	65.000 (2.559")	7.000 (0.276")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN-6810-FC-DRY
50.000 (1.969")	65.000 (2.559")	7.000 (0.276")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN-6810-TF-TTS-DRY
50.000 (1.969")	72.000 (2.835")	12.000 (0.472")	Silicon Nitride/ Open - No Lube	CSN-6910-TF-DRY
50.000 (1.969")	72.000 (2.835")	12.000 (0.472")	Silicon Nitride/ Open - Kyodo Yushi SRL	CSN-6910-TF-SRL
90.000 (3.543")	190.000 (7.480")	43.000 (1.693")	Silicon Nitride/ Open - No Lube	CSN-6318-TF-DRY
90.000 (3.543")	190.000 (7.480")	43.000 (1.693")	Silicon Nitride/ Open - Kyodo Yushi SRL	CSN-6318-TF-SRL
100.000 (3.937")	125.000 (4.921")	13.000 (0.512")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN-6820-FC-DRY

Bearings - Ceramic ZrO2 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - No Lube	CZR623-PK-PPS-MC34-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Kyodo Yushi SRL	* CZR623-PK-PPS-MC34-SRL
4.000 (0.157")	7.000 (0.276")	2.000 (0.079")	Zirconia / PTFE Cage / ZrO2 Balls/ Open - No Lube	CZRMR74-TF-MC34-DRY
4.000 (0.157")	7.000 (0.276")	2.000 (0.079")	Zirconia / PTFE Cage / ZrO2 Balls/ Open - Kyodo Yushi SRL	* CZRMR74-TF-MC34-SRL
4.000 (0.157")	11.000 (0.433")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - No Lube	CZR694-PK-PPS-MC34-DRY
4.000 (0.157")	11.000 (0.433")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Kyodo Yushi SRL	* CZR694-PK-PPS-MC34-SRL
5.000 (0.197")	11.000 (0.433")	4.000 (0.157")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZRMR115-TF-TTS-MC34-SRL
6.000 (0.236")	12.000 (0.472")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZRMR126A-PK-PPS-MC34-AF12
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR627-TF-TTS-MC3-DRY
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR627-TF-TTS-MC3-SRL
8.000 (0.315")	16.000 (0.630")	4.000 (0.157")	Zirconia / PTFE Cage/ Open - No Lube	CZR688-TF-MC34-DRY
8.000 (0.315")	16.000 (0.630")	4.000 (0.157")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR688-TF-MC34-SRL
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage/ Open - No Lube	CZR688A-TF-MC34-DRY
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	* CZR688A-TF-MC34-SRL
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR688A-TF-TTS-MC3-DRY
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR688A-TF-TTS-MC3-SRL
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / Full Complement/ Open - No Lube	CZR608-FC-MC34-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR608-TF-TTS-MC3-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR608-TF-TTS-MC3-SRL
9.000 (0.354")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - No Lube	CZR629-TF-MC34-DRY
9.000 (0.354")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR629-TF-MC34-SRL
9.525 (0.375")	22.225 (0.875")	5.556 (0.219")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZR66-PK-PPS-MC3-AF12
9.525 (0.375")	22.225 (0.875")	7.142 (0.281")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR66A-TF-TTS-MC3-DRY
9.525 (0.375")	22.225 (0.875")	7.142 (0.281")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR66A-TF-TTS-MC3-SRL
10.000 (0.394")	15.000 (0.591")	4.000 (0.157")	Zirconia / PEEK Cage/ Open - No Lube	CZR6700A-PK-DRY
10.000 (0.394")	15.000 (0.591")	4.000 (0.157")	Zirconia / PEEK Cage/ Open - Kyodo Yushi SRL	CZR6700A-PK-SRL
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6800-TF-TTS-C3-DRY
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6800-TF-TTS-C3-SRL
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / Full Complement / Open/ Open - No Lube	CZR6900-FC-DRY
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / Nylon Cage/ Open - No Lube	CZR6900-NY-DRY
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / Nylon Cage/ Open - Kyodo Yushi SRL	* CZR6900-NY-SRL
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6900-TF-TTS-C3-DRY
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6900-TF-TTS-C3-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - No Lube	CZR6000-TF-DRY
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6000-TF-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6000-TF-TTS-C3-DRY

Bearings - Ceramic ZrO2 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6000-TF-TTS-C3-SRL
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / Open / Full Complement/ Open - No Lube	CZR6200-FC-DRY
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / Open / Full Complement/ Open - Kyodo Yushi SRL	CZR6200-FC-SRL
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / PTFE Cage/ Open - No Lube	CZR6200-TF-DRY
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6200-TF-SRL
12.000 (0.472")	21.000 (0.827")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6801-TF-TTS-C3-DRY
12.000 (0.472")	21.000 (0.827")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6801-TF-TTS-C3-SRL
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6901-TF-TTS-DRY
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6901-TF-TTS-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Zirconia / PTFE Cage / Open/ Open - No Lube	CZR6001-TF-C3-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6001-TF-TTS-C3-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6001-TF-TTS-C3-SRL
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6201-TF-TTS-C3-DRY
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6201-TF-TTS-C3-SRL
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6802-TF-TTS-C3-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6802-TF-TTS-C3-SRL
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Zirconia / Polyamide Cage / PTFE Seals - No Lube	CZRRMR2615-T9H-TTS-C3-DRY
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Zirconia / Polyamide Cage / PTFE Seals - Kyodo Yushi SRL	* CZRRMR2615-T9H-TTS-C3-SRL
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6002-TF-TTS-DRY
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6002-TF-TTS-SRL
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Zirconia / PTFE Cage/ Open - No Lube	CZR6202-TF-DRY
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6202-TF-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage/ Open - No Lube	CZR6903-TF-DRY
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6903-TF-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6903-TF-TTS-C3-DRY
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6903-TF-TTS-C3-SRL
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Zirconia / PTFE Cage/ Open - No Lube	CZR6003-TF-DRY
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6003-TF-SRL
17.000 (0.669")	40.000 (1.575")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - No Lube	CZR6203-TF-DRY
17.000 (0.669")	40.000 (1.575")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6203-TF-SRL
20.000 (0.787")	37.000 (1.457")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6904-TF-TTS-C3-DRY
20.000 (0.787")	37.000 (1.457")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6904-TF-TTS-C3-SRL
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - No Lube	CZR6004-TF-DRY
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6004-TF-SRL
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / Full Complement/ Open - No Lube	CZR6204-FC-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage/ Open - No Lube	CZR6204-TF-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6204-TF-SRL
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6204-TF-TTS-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6204-TF-TTS-SRL
20.000 (0.787")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6304-TF-TTS-C3-DRY
20.000 (0.787")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR6304-TF-TTS-C3-SRL
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6805-TF-TTS-C3-DRY
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6805-TF-TTS-C3-SRL
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6905-TF-TTS-C3-DRY
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6905-TF-TTS-C3-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PEEK Cage / PTFE Seals - No Lube	CZR6005-PK-TTS-C3-DRY
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6005-PK-TTS-C3-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - No Lube	CZR6005-TF-DRY
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6005-TF-SRL
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / Full Complement / PTFE Seals - No Lube	CZR6205-FC-TTS-C3-DRY
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / Full Complement / PTFE Seals - Kyodo Yushi SRL	* CZR6205-FC-TTS-C3-SRL
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage/ Open - No Lube	CZR6205-TF-DRY
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6205-TF-SRL
25.400 (1.000")	50.800 (2.000")	12.700 (0.500")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZRR16A-TF-TTS-C3-DRY
25.400 (1.000")	50.800 (2.000")	12.700 (0.500")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZRR16A-TF-TTS-C3-SRL
30.000 (1.181")	35.000 (1.378")	13.000 (0.512")	Zirconia / PTFE Cage/ Open - No Lube	CZR6006-TF-DRY
30.000 (1.181")	35.000 (1.378")	13.000 (0.512")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR6006-TF-SRL
30.000 (1.181")	42.000 (1.654")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6806-TF-TTS-C3-DRY
30.000 (1.181")	42.000 (1.654")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6806-TF-TTS-C3-SRL
30.000 (1.181")	62.000 (2.441")	16.000 (0.630")	Zirconia / Full Complement/ Open - No Lube	CZR6206-FC-DRY
30.000 (1.181")	62.000 (2.441")	16.000 (0.630")	Zirconia / Full Complement/ Open - Kyodo Yushi SRL	CZR6206-FC-SRL
40.000 (1.575")	52.000 (2.047")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6808-TF-TTS-C3-DRY
40.000 (1.575")	52.000 (2.047")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6808-TF-TTS-C3-SRL
40.000 (1.575")	68.000 (2.677")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6008-TF-TTS-C3-DRY
40.000 (1.575")	68.000 (2.677")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6008-TF-TTS-C3-SRL

Stocked or Short Delivery
 Usually Available Short Delivery
 Long delivery or not in current production
 * Large Minimum Quantities ** Available only while stock lasts Page 5 of 8 E&OE

Bearings - Ceramic ZrO2 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
40.000 (1.575")	80.000 (3.150")	18.000 (0.709")	Zirconia / Full Complement/ Open - No Lube	CZR6208-FC-DRY
45.000 (1.772")	75.000 (2.953")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6009-TF-TTS-C3-DRY
45.000 (1.772")	75.000 (2.953")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6009-TF-TTS-C3-SRL
45.000 (1.772")	85.000 (3.346")	19.000 (0.748")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6209-TF-TTS-C3-DRY
45.000 (1.772")	85.000 (3.346")	19.000 (0.748")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6209-TF-TTS-C3-SRL
50.000 (1.969")	65.000 (2.559")	7.000 (0.276")	Zirconia / Open / Full Complement/ Open - No Lube	CZR6810-FC-DRY
50.000 (1.969")	80.000 (3.150")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR6010-TF-TTS-C3-DRY
50.000 (1.969")	80.000 (3.150")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	* CZR6010-TF-TTS-C3-SRL
100.000 (3.937")	125.000 (4.921")	13.000 (0.512")	Zirconia / Open / Full Complement/ Open - No Lube	CZR6820-FC-DRY

Bearings - Ceramic ZrO2 - Self Aligning - Double Row

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Zirconia / Nylon Cage/ Open - No Lube	CZR-1202-NY-DRY
15.875 (0.625")	46.038 (1.813")	15.875 (0.625")	Zirconia / PTFE Cage/ Open - No Lube	CZR-DRSA-RMS5-TF-DRY
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / Nylon Cage/ Open - No Lube	CZR-1205-NY-DRY

Bearings - Ceramic ZRO2- Angular Contact

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Zirconia / PEEK Cage / Si3N4 Balls / Polypropylene Seals - Kyodo Yu	CZR7901-PK-CSN-PPU5-SRL

Bearings - Thrust - Ball - Grooved - Si3N4 Ceramic

Bore (d1) mm (in.)	OD (D1) mm (in.)	Thickness (T) mm (in.)	Description	Part Number
25.000 (0.984")	47.000 (1.850")	15.000 (0.591")	-	CSN-T-0250-0470-G-FC-51205

Bearings - Thrust - Ball - Grooved - ZRO2 Ceramic

Bore (d1) mm (in.)	OD (D1) mm (in.)	Thickness (T) mm (in.)	Description	Part Number
4.000 (0.157")	9.000 (0.354")	4.000 (0.157")	-	CZR-T-0040-0090-G-ZR
4.000 (0.157")	10.000 (0.394")	4.000 (0.157")	-	CZR-T-0040-0100-G-ZR
20.000 (0.787")	35.000 (1.378")	10.000 (0.394")	-	CZRT-0200-0350-G-ZR-51104
30.000 (1.181")	47.000 (1.850")	11.000 (0.433")	-	CZRT-0300-0470-G-ZR-51106
60.000 (2.362")	85.000 (3.346")	17.000 (0.669")	-	CZRT-0600-0850-G-ZR-51112



Stocked or Short Delivery



Usually Available Short Delivery



Long delivery or not in current production

* Large Minimum Quantities

** Available only while stock lasts

TIPS

Si₃N₄ Silicon Nitride is a grey ceramic. ZrO₂ Zirconia is white.

Whilst Si₃N₄ full ceramic bearings can sometimes achieve higher speeds than standard chrome or 440C stainless bearings, the manufacturers rate them the same and suggest testing in your own environment for any new applications.

ZrO₂ Zirconia full ceramic bearings are only rated to about 20% the speed of standard bearings.

These bearings are great for applications in contact with a wide range of chemicals. A chemical compatibility chart should be employed to select the appropriate material.

Zirconia bearings are better for high heat applications than Silicon Nitride. Testing in your environment is recommended.

Always take into consideration the cage and seal material when looking at full ceramic bearings. Ceramic will handle much higher temperatures and a different range of chemicals than the seals and cages. Full complement, unsealed bearings may be the best choice for extreme environments. Always consider the limitations of component parts, not just the ceramic.

Full ceramic bearings are not suitable for applications with impact or vibration.

Low heat generation means that ceramic bearings can often be used with less lubrication than metallic bearings. Some applications may require no lubricant, and in some instances ceramic bearings may be lubricated by the medium in which they are running (eg; water).

The main benefits to keep in mind for full ceramic bearings include - low friction - chemical resistance - temperature resistance - light weight - non magnetic - low maintenance - corrosion resistance.

Due to no metal on metal contact, ceramic ball bearings are electrically insulating.

Ceramic bearings are non-magnetic.



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