



MBA

2019

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	CSN708-FC-DRY
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 - 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	CSN683A-PK-DRY
3.000 (0.118")	7.000 (0.276")	3.000 (0.118")	Silicon Nitride / PEEK Cage/ Open - Kyodo Yushi SRL	CSN683A-PK-SRL
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN623-PK-TTS-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN623-PK-TTS-SRL
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage/ Open - No Lube	CSN-R2-PK-DRY
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage/ Open - Kyodo Yushi SRL	CSN-R2-PK-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-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-SRL
4.000 (0.157")	16.000 (0.630")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN634-TF-TTS-DRY
4.000 (0.157")	16.000 (0.630")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN634-TF-TTS-SRL
6.000 (0.236")	15.000 (0.591")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN696-TF-TTS-DRY
6.000 (0.236")	15.000 (0.591")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN696-TF-TTS-SRL
6.000 (0.236")	19.000 (0.748")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN626-TF-TTS-C3-DRY
6.000 (0.236")	19.000 (0.748")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN626-TF-TTS-C3-SRL
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN627-TF-TTS-C3-DRY
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN627-TF-TTS-C3-SRL
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN608-TF-TTS-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN608-TF-TTS-SRL
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN6800-PK-TTS-DRY
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN6800-PK-TTS-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6000-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	CSN6000-TF-TTS-C3-SRL
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN6200-FC-DRY
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Silicon Nitride - Full Complement - Open/ Open - Kyodo Yushi SRL	CSN6200-FC-SRL
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6901-TF-TTS-DRY
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6901-TF-TTS-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride - Full Complement / PTFE Seals - No Lube	CSN6001-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	CSN6001-FC-TTS-C3-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6001-TF-TTS-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6001-TF-TTS-SRL
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6201-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	CSN6201-TF-TTS-C3-SRL
12.000 (0.472")	37.000 (1.457")	12.000 (0.472")	Silicon Nitride - PTFE Cage - Open/ Open - No Lube	CSN6301-TF-DRY
12.700 (0.500")	28.575 (1.125")	7.938 (0.313")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSNR8A-TF-TTS-DRY
12.700 (0.500")	28.575 (1.125")	7.938 (0.313")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSNR8A-TF-TTS-SRL
12.700 (0.500")	34.925 (1.375")	11.113 (0.438")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSNR12216-PK-TTS-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6802-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	CSN6802-TF-TTS-C3-SRL
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSNMR2615-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	CSNMR2615-TF-TTS-C3-SRL
15.000 (0.591")	28.00 (1.102")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6902-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	CSN6902-TF-TTS-C3-SRL
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6002-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	CSN6002-TF-TTS-C3-SRL
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6202-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	CSN6202-TF-TTS-C3-SRL
15.000 (0.591")	42.000 (1.654")	13.000 (0.512")	Silicon Nitride - Full Complement - Open/ Open - No Lube	CSN6302-FC-DRY
17.000 (0.669")	26.000 (1.024")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6803-TF-TTS-DRY
17.000 (0.669")	26.000 (1.024")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6803-TF-TTS-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6903-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	CSN6903-TF-TTS-C3-SRL
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6003-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	CSN6003-TF-TTS-C3-SRL
20.000 (0.787")	32.000 (1.260")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6804-TF-TTS-DRY
20.000 (0.787")	32.000 (1.260")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6804-TF-TTS-SRL
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6004-TF-TTS-C3-DRY
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6004-TF-TTS-C3-SRL
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / Full Complement - No Lube	CSN6204-FC-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6204-TF-TTS-DRY

Stocked or Short Delivery

Usually Available Short Delivery

Long delivery or not in current production

Bearings - Ceramic Si3N4 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6204-TF-TTS-SRL
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / Full Complement / PTFE Seals - No Lube	CSNR14A-FC-TTS-DRY
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / Full Complement / PTFE Seals - Kyodo Yushi SRL	CSNR14A-FC-TTS-SRL
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSNR14A-TF-TTS-DRY
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSNR14A-TF-TTS-SRL
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6805-TF-TTS-DRY
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN6805-TF-TTS-SRL
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6905-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	CSN6905-TF-TTS-C3-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN6005-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	CSN6005-TF-TTS-C3-SRL
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	CSN6007-TF-TTS-C3-DRY
50.000 (1.969")	72.000 (2.835")	12.000 (0.472")	Silicon Nitride/ Open - No Lube	CSN6910-TF-DRY
50.000 (1.969")	72.000 (2.835")	12.000 (0.472")	Silicon Nitride/ Open - Kyodo Yushi SRL	CSN6910-TF-SRL
90.000 (3.543")	190.000 (7.480")	43.000 (1.693")	Silicon Nitride/ Open - No Lube	CSN6318-TF-DRY
90.000 (3.543")	190.000 (7.480")	43.000 (1.693")	Silicon Nitride/ Open - Kyodo Yushi SRL	CSN6318-TF-SRL

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-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Kyodo Yushi SRL	CZR623-PK-PPS-SRL
4.000 (0.157")	7.000 (0.276")	2.000 (0.079")	Zirconia / PTFE Cage / ZrO2 Balls/ Open - No Lube	CZRRM74-TF-DRY
4.000 (0.157")	7.000 (0.276")	2.000 (0.079")	Zirconia / PTFE Cage / ZrO2 Balls/ Open - Kyodo Yushi SRL	CZRRM74-TF-SRL
4.000 (0.157")	11.000 (0.433")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - No Lube	CZR694-PK-PPS-DRY
4.000 (0.157")	11.000 (0.433")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Kyodo Yushi SRL	CZR694-PK-PPS-SRL
5.000 (0.197")	10.000 (0.394")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZRRM105A-PK-PPMC5U5-AF12
5.000 (0.197")	11.000 (0.433")	4.000 (0.157")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZRRM115-TF-TTS-SRL
6.000 (0.236")	12.000 (0.472")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZRRM126A-PK-PPS-AF12
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR627-TF-TTS-C3-DRY
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR627-TF-TTS-C3-SRL
8.000 (0.315")	16.000 (0.630")	4.000 (0.157")	Zirconia / PTFE Cage/ Open - No Lube	CZR688-TF-DRY
8.000 (0.315")	16.000 (0.630")	4.000 (0.157")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR688-TF-SRL
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage/ Open - No Lube	CZR688A-TF-DRY
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR688A-TF-SRL
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR688A-TF-TSMC3-DRY
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR688A-TF-TSMC3-SRL
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR608-TF-TSMC3-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR608-TF-TSMC3-SRL
9.000 (0.354")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - No Lube	CZR629-TF-DRY
9.000 (0.354")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR629-TF-SRL
9.525 (0.375")	22.225 (0.875")	5.557 (0.219")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZRR6-PK-PPS-C3-AF12
9.525 (0.375")	22.225 (0.875")	7.142 (0.281")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZRR6-TF-TTS-C3-DRY
9.525 (0.375")	22.225 (0.875")	7.142 (0.281")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZRR6-TF-TTS-C3-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 / 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
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 / 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 / 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

Stocked or Short Delivery

Usually Available Short Delivery

Long delivery or not in current production

Bearings - Ceramic ZrO2 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
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	CZRRM2615-T9H-TTS-C3-DRY
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Zirconia / Polyamide Cage / PTFE Seals - Kyodo Yushi SRL	CZRRM2615-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
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")	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

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

Stocked or Short Delivery

Usually Available Short Delivery

Long delivery or not in current production

Bearings - Ceramic ZrO2 - Self Aligning - Double Row

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / Nylon Cage/ Open - No Lube	CZR-1205-NY-DRY

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")	Silicon Nitride / Full Complement -	CSNT-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
20.000 (0.787")	35.000 (1.378")	10.000 (0.394")	Zirconia / Zirconia Cage -	CZRT-0200-0350-G-ZR-51104
30.000 (1.181")	47.000 (1.850")	11.000 (0.433")	Zirconia / Zirconia Cage -	CZRT-0300-0470-G-ZR-51106
60.000 (2.362")	85.000 (3.346")	17.000 (0.669")	Zirconia / Zirconia Cage -	CZRT-0600-0850-G-ZR-51112



Stocked or Short Delivery



Usually Available Short Delivery



Long delivery or not in current production

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. The 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.

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

Low heat generation means that the bearings can often be used with less lubrication than standard bearings. Some applications may require no lubricant, and in some instances the 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.



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