

# MBA

# 2024.1

## 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 - TTS - C3 - TF - SRL

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**1 Ceramic Type:**

CSN: Ceramic Silicon Nitride Si3N4  
CZR: Ceramic Zirconia ZRO2

**2 Basic Part:**

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

**3 Seal Type:**

None: Open  
PPS: Polypropylene  
TTS: PTFE

**4 Clearance:**

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

**5 Cage Material:**

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

**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-MC34-PK-DRY
3.000 (0.118")	7.000 (0.276")	3.000 (0.118")	Silicon Nitride / PEEK Cage/ Open - Kyodo Yushi SRL	CSN-683A-MC34-PK-SRL
3.000 (0.118")	8.000 (0.315")	4.000 (0.157")	Silicon Nitride / PTFE Cage - No Lube	CSN-693A-TTS-TF-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-623-TTS-MC34-PK-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN-623-TTS-MC34-PK-SRL
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage/ Open - No Lube	CSN-R2-MC34-PK-DRY
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage/ Open - Kyodo Yushi SRL	CSN-R2-MC34-PK-SRL
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-R2-TTS-MC34-PK-DRY
3.175 (0.125")	9.525 (0.375")	3.969 (0.156")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN-R2-TTS-MC34-PK-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-TTS-MC34-TF-DRY
4.000 (0.157")	16.000 (0.630")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-634-TTS-MC34-TF-SRL
6.000 (0.236")	15.000 (0.591")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-696-TTS-MC34-TF-DRY
6.000 (0.236")	15.000 (0.591")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-696-TTS-MC34-TF-SRL
6.000 (0.236")	19.000 (0.748")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-626-TTS-MC34-TF-DRY
6.000 (0.236")	19.000 (0.748")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-626-TTS-MC34-TF-SRL
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-627-TTS-MC34-TF-DRY
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-627-TTS-MC34-TF-SRL
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Unknown - Unknown	5S-608-ZZ-C3-5K
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-608-TTS-MC34-TF-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-608-TTS-MC34-TF-SRL
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-6800-TTS-PK-DRY
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Silicon Nitride / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6800-TTS-PK-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6000-TTS-C3-TF-DRY
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6000-TTS-C3-TF-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-TTS-TF-DRY
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6901-TTS-TF-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride - Full Complement / PTFE Seals - No Lube	CSN-6001-TTS-C3-FC-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride - Full Complement / PTFE Seals - Kyodo Yushi SRL	CSN-6001-TTS-C3-FC-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6001-TTS-TF-DRY
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6001-TTS-TF-SRL
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6201-TTS-C3-TF-DRY
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6201-TTS-C3-TF-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-TTS-TF-DRY
12.700 (0.500")	28.575 (1.125")	7.938 (0.313")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-R8A-TTS-TF-SRL
12.700 (0.500")	34.925 (1.375")	11.113 (0.438")	Silicon Nitride / PEEK Cage / PTFE Seals - No Lube	CSN-R12216-TTS-PK-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6802-TTS-C3-TF-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6802-TTS-C3-TF-SRL
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-MR2615-TTS-C3-TF-DRY
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-MR2615-TTS-C3-TF-SRL
15.000 (0.591")	28.00 (1.102")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6902-TTS-C3-TF-DRY
15.000 (0.591")	28.00 (1.102")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6902-TTS-C3-TF-SRL
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6002-TTS-C3-TF-DRY
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6002-TTS-C3-TF-SRL
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6202-TTS-C3-TF-DRY
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6202-TTS-C3-TF-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-TTS-TF-DRY
17.000 (0.669")	26.000 (1.024")	5.000 (0.197")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6803-TTS-TF-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6903-TTS-C3-TF-DRY
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6903-TTS-C3-TF-SRL
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6003-TTS-C3-TF-DRY
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6003-TTS-C3-TF-SRL
20.000 (0.787")	27.000 (1.063")	4.000 (0.157")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6704-TTS-C3-TF-DRY
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-TTS-TF-DRY
20.000 (0.787")	32.000 (1.260")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6804-TTS-TF-SRL

Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

Long Delivery or Large Minimum Quantities  
 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")	42.000 (1.654")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6004-TTS-C3-TF-DRY
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6004-TTS-C3-TF-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-TTS-TF-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6204-TTS-TF-SRL
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / Full Complement / PTFE Seals - No Lube	CSN-R14A-TTS-FC-DRY
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / Full Complement / PTFE Seals - Kyodo Yushi SRL	CSN-R14A-TTS-FC-SRL
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-R14A-TTS-TF-DRY
22.225 (0.875")	47.625 (1.875")	12.700 (0.500")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-R14A-TTS-TF-SRL
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6805-TTS-TF-DRY
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6805-TTS-TF-SRL
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6905-TTS-C3-TF-DRY
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6905-TTS-C3-TF-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6005-TTS-C3-TF-DRY
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Silicon Nitride / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CSN-6005-TTS-C3-TF-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")	62.000 (2.441")	20.000 (0.787")	Silicon Nitride / PTFE Cage / PTFE Seals - No Lube	CSN-6007-TTS-C3-TF-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 - No Lube	CSN-6810-TTS-TF-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	CZR-623-PPS-MC34-PK-DRY
3.000 (0.118")	10.000 (0.394")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Kyodo Yushi SRL	CZR-623-PPS-MC34-PK-SRL
4.000 (0.157")	7.000 (0.276")	2.000 (0.079")	Zirconia / PTFE Cage / ZrO2 Balls/ Open - No Lube	CZR-MR74-MC34-TF-DRY
4.000 (0.157")	7.000 (0.276")	2.000 (0.079")	Zirconia / PTFE Cage / ZrO2 Balls/ Open - Kyodo Yushi SRL	CZR-MR74-MC34-TF-SRL
4.000 (0.157")	11.000 (0.433")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - No Lube	CZR-694-PPS-MC34-PK-DRY
4.000 (0.157")	11.000 (0.433")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Kyodo Yushi SRL	CZR-694-PPS-MC34-PK-SRL
5.000 (0.197")	11.000 (0.433")	4.000 (0.157")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-MR115-TTS-MC34-TF-SRL
6.000 (0.236")	12.000 (0.472")	4.000 (0.157")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZR-MR126A-PPS-MC34-PK-AF12
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-627-TTS-MC34-TF-DRY
7.000 (0.276")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-627-TTS-MC34-TF-SRL
8.000 (0.315")	16.000 (0.630")	4.000 (0.157")	Zirconia / PTFE Cage/ Open - No Lube	CZR-688-MC34-TF-DRY
8.000 (0.315")	16.000 (0.630")	4.000 (0.157")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-688-MC34-TF-SRL
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage/ Open - No Lube	CZR-688A-MC34-TF-DRY
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-688A-MC34-TF-SRL
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-688A-TTS-MC34-TF-DRY
8.000 (0.315")	16.000 (0.630")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-688A-TTS-MC34-TF-SRL
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / Full Complement/ Open - No Lube	CZR-608-MC34-FC-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-608-TTS-MC34-TF-DRY
8.000 (0.315")	22.000 (0.866")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-608-TTS-MC34-TF-SRL
9.000 (0.354")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - No Lube	CZR-629-MC34-TF-DRY
9.000 (0.354")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-629-MC34-TF-SRL
9.525 (0.375")	22.225 (0.875")	5.556 (0.219")	Zirconia / PEEK Cage / Polypropylene Seals - Aeroshell Fluid 12	CZR-R6A-PPS-MC34-PK-AF12
9.525 (0.375")	22.225 (0.875")	7.142 (0.281")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-R6A-TTS-MC34-TF-DRY
9.525 (0.375")	22.225 (0.875")	7.142 (0.281")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-R6A-TTS-MC34-TF-SRL
10.000 (0.394")	15.000 (0.591")	4.000 (0.157")	Zirconia / PEEK Cage/ Open - No Lube	CZR-6700A-PK-DRY
10.000 (0.394")	15.000 (0.591")	4.000 (0.157")	Zirconia / PEEK Cage/ Open - Kyodo Yushi SRL	CZR-6700A-PK-SRL
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6800-TTS-C3-TF-DRY
10.000 (0.394")	19.000 (0.748")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6800-TTS-C3-TF-SRL
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / Full Complement / Open/ Open - No Lube	CZR-6900-FC-DRY
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / Nylon Cage/ Open - No Lube	CZR-6900-NY-DRY
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / Nylon Cage/ Open - Kyodo Yushi SRL	CZR-6900-NY-SRL
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6900-TTS-C3-TF-DRY
10.000 (0.394")	22.000 (0.866")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6900-TTS-C3-TF-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6000-TF-DRY
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6000-TF-SRL
10.000 (0.394")	26.000 (1.024")	8.000 (0.315")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6000-TTS-C3-TF-DRY

Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

Long Delivery or Large Minimum Quantities  
 Not in current production

# Bearings - Ceramic ZrO2 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / Open / Full Complement/ Open - No Lube	CZR-6200-FC-DRY
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / Open / Full Complement/ Open - Kyodo Yushi SRL	CZR-6200-FC-SRL
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6200-TF-DRY
10.000 (0.394")	30.000 (1.181")	9.000 (0.354")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6200-TF-SRL
12.000 (0.472")	21.000 (0.827")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6801-TTS-C3-TF-DRY
12.000 (0.472")	21.000 (0.827")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6801-TTS-C3-TF-SRL
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6901-TTS-TF-DRY
12.000 (0.472")	24.000 (0.945")	6.000 (0.236")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6901-TTS-TF-SRL
12.000 (0.472")	28.000 (1.102")	8.000 (0.315")	Zirconia / PTFE Cage / Open - No Lube	CZR-6001-TTS-C3-TF-DRY
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6201-TTS-C3-TF-DRY
12.000 (0.472")	32.000 (1.260")	10.000 (0.394")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6201-TTS-C3-TF-SRL
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6802-TTS-C3-TF-DRY
15.000 (0.591")	24.000 (0.945")	5.000 (0.197")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6802-TTS-C3-TF-SRL
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Zirconia / Polyamide Cage / PTFE Seals - No Lube	CZR-MR2615-T9H-TTS-C3-TF-DRY
15.000 (0.591")	26.000 (1.024")	7.000 (0.276")	Zirconia / Polyamide Cage / PTFE Seals - Kyodo Yushi SRL	CZR-MR2615-T9H-TTS-C3-TF-SRL
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6002-TTS-TF-DRY
15.000 (0.591")	32.000 (1.260")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6002-TTS-TF-SRL
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6202-TF-DRY
15.000 (0.591")	35.000 (1.378")	11.000 (0.433")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6202-TF-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6903-TF-DRY
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6903-TF-SRL
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6903-TTS-C3-TF-DRY
17.000 (0.669")	30.000 (1.181")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6903-TTS-C3-TF-SRL
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6003-TF-DRY
17.000 (0.669")	35.000 (1.378")	10.000 (0.394")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6003-TF-SRL
17.000 (0.669")	40.000 (1.575")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6203-TF-DRY
17.000 (0.669")	40.000 (1.575")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6203-TF-SRL
20.000 (0.787")	37.000 (1.457")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6904-TTS-C3-TF-DRY
20.000 (0.787")	37.000 (1.457")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6904-TTS-C3-TF-SRL
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6004-TF-DRY
20.000 (0.787")	42.000 (1.654")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6004-TF-SRL
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / Full Complement/ Open - No Lube	CZR-6204-FC-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6204-TF-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6204-TF-SRL
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6204-TTS-TF-DRY
20.000 (0.787")	47.000 (1.850")	14.000 (0.551")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6204-TTS-TF-SRL
20.000 (0.787")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6304-TTS-C3-TF-DRY
20.000 (0.787")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6304-TTS-C3-TF-SRL
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6805-TTS-C3-TF-DRY
25.000 (0.984")	37.000 (1.457")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6805-TTS-C3-TF-SRL
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6905-TTS-C3-TF-DRY
25.000 (0.984")	42.000 (1.654")	9.000 (0.354")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6905-TTS-C3-TF-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6005-TF-DRY
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6005-TF-SRL
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PEEK Cage / PTFE Seals - No Lube	CZR-6005-TTS-C3-PK-DRY
25.000 (0.984")	47.000 (1.850")	12.000 (0.472")	Zirconia / PEEK Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6005-TTS-C3-PK-SRL
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6205-TF-DRY
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6205-TF-SRL
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / Full Complement / PTFE Seals - No Lube	CZR-6205-TTS-C3-FC-DRY
25.000 (0.984")	52.000 (2.047")	15.000 (0.591")	Zirconia / Full Complement / PTFE Seals - Kyodo Yushi SRL	CZR-6205-TTS-C3-FC-SRL
25.400 (1.000")	50.800 (2.000")	12.700 (0.500")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-R16A-TTS-C3-TF-DRY
25.400 (1.000")	50.800 (2.000")	12.700 (0.500")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-R16A-TTS-C3-TF-SRL
30.000 (1.181")	35.000 (1.378")	13.000 (0.512")	Zirconia / PTFE Cage/ Open - No Lube	CZR-6006-TF-DRY
30.000 (1.181")	35.000 (1.378")	13.000 (0.512")	Zirconia / PTFE Cage/ Open - Kyodo Yushi SRL	CZR-6006-TF-SRL
30.000 (1.181")	42.000 (1.654")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6806-TTS-C3-TF-DRY
30.000 (1.181")	42.000 (1.654")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6806-TTS-C3-TF-SRL
30.000 (1.181")	62.000 (2.441")	16.000 (0.630")	Zirconia / Full Complement/ Open - No Lube	CZR-6206-FC-DRY
30.000 (1.181")	62.000 (2.441")	16.000 (0.630")	Zirconia / Full Complement/ Open - Kyodo Yushi SRL	CZR-6206-FC-SRL
35.000 (1.378")	47.000 (1.850")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6807-TTS-C3-TF-DRY
40.000 (1.575")	52.000 (2.047")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6808-TTS-C3-TF-DRY
40.000 (1.575")	52.000 (2.047")	7.000 (0.276")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6808-TTS-C3-TF-SRL
40.000 (1.575")	68.000 (2.677")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6008-TTS-C3-TF-DRY
40.000 (1.575")	68.000 (2.677")	15.000 (0.591")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6008-TTS-C3-TF-SRL
40.000 (1.575")	80.000 (3.150")	18.000 (0.709")	Zirconia / Full Complement/ Open - No Lube	CZR-6208-FC-DRY

Usually stocked or Short Delivery  
 \*\* Available while stocks last \*\*

Long Delivery or Large Minimum Quantities  
 Not in current production

### Bearings - Ceramic ZrO2 - Radial

ID (d) mm (in.)	OD (D) mm (in.)	Width (B) mm (in.)	Description	Part Number
45.000 (1.772")	75.000 (2.953")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6009-TTS-C3-TF-DRY
45.000 (1.772")	75.000 (2.953")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6009-TTS-C3-TF-SRL
45.000 (1.772")	85.000 (3.346")	19.000 (0.748")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6209-TTS-C3-TF-DRY
45.000 (1.772")	85.000 (3.346")	19.000 (0.748")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6209-TTS-C3-TF-SRL
50.000 (1.969")	65.000 (2.559")	7.000 (0.276")	Zirconia / Open / Full Complement/ Open - No Lube	CZR-6810-FC-DRY
50.000 (1.969")	80.000 (3.150")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - No Lube	CZR-6010-TTS-C3-TF-DRY
50.000 (1.969")	80.000 (3.150")	16.000 (0.630")	Zirconia / PTFE Cage / PTFE Seals - Kyodo Yushi SRL	CZR-6010-TTS-C3-TF-SRL
100.000 (3.937")	125.000 (4.921")	13.000 (0.512")	Zirconia / Open / Full Complement/ Open - No Lube	CZR-6820-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-CSN-PP-U5-PK-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-TF-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

 Usually stocked or Short Delivery  
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 Long Delivery or Large Minimum Quantities  
 Not in current production

## TIPS

Si<sub>3</sub>N<sub>4</sub> Silicon Nitride is a grey ceramic. ZrO<sub>2</sub> Zirconia is white.

Whilst Si<sub>3</sub>N<sub>4</sub> 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.

ZrO<sub>2</sub> 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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# Ceramic Bearings