

# C-SERIES BEARINGS

# CERAMIC

## CHARACTERISTICS

Major characteristics of a ceramic bearing are: excellent corrosion and chemical resistance; self lubricating (absence of grease); and non-magnetic. Recommended environments include, but are not limited to: etching, cleaning, coating, medical, and testing equipment.



Code	Part No.	JIS	D <sub>-0.02</sub> [mm]	d <sup>+0.02</sup> [mm]	W <sub>-0.1</sub> [mm]	Balls material	Outer and Inner races material	Retainer material
	C-26-CHC10	6000	26	10	8	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-28-CHC12	6001	28	12	8	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-30-CHC10	6200	30	10	9	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-32-CHC12	6201	32	12	10	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-32-CHC15	6002	32	15	9	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-35-CHC15	6202	35	15	11	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-35-CHC17	6003	35	17	10	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-40-CHC17	6203	40	17	12	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-42-CHC20	6004	42	20	12	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-47-CHC20	6204	47	20	14	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-47-CHC25	6005	47	25	12	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-52-CHC25	6205	52	25	15	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-55-CHC30	6006	55	30	13	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-62-CHC30	6206	62	30	16	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-62-CHC35	6007	62	35	14	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-68-CHC40	6008	68	40	15	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-72-CHC35	6207	72	35	17	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE
	C-80-CHC40	6208	80	40	18	ZrO <sub>2</sub>	ZrO <sub>2</sub>	PTFE

Inner gap is under C4 (within 0.03mm)

Can be designed and produce in different sizes

Material: Ball and outer/inner races-Zirconia (ZrO<sub>2</sub>); retainer — polytetrafluoroethylene (PTFE)

### Guide to Corrosion Resistance

Use liquid	Material	Si-Ni	ZrO <sub>2</sub>	PTFE
Salt-Water		⊙	⊙	⊙
Potassium Hydroxide		△	△	⊙
Sodium Hydroxide		△	○	⊙
Hydrofluoric acid		△	▲	⊙
Phosphoric Acid		○	○	⊙
Sulphuric Acid		○	○	⊙
Hydrochloric Acid		△	○	⊙
Nitric Acid		○	○	⊙

⊙ : anticorrosive  
○ : hardly corrosive  
△ : slight corrosive  
▲ : possibility of corrosiveness

\*Chemical and corrosion resistance will vary depending on chemical concentrations and temperatures.

(Guide to Corrosion resistance, is only a reference. For more information Please contact our sales and engineering departments for assistance)

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Product specification are subject to change without prior notice.

**Before assembly or use of any bearing, please read "Caution for Use"**