

氮化硅陶瓷球/Si3N4 Ceramic ball

氮化硅陶瓷球是在非氧化气氛中高温烧结的精密陶瓷，具有高强度，高耐磨性，耐高温，耐腐蚀，耐酸、碱、可在海水中长期使用，并具有绝电绝磁的良好性能。在800℃时，强度、硬度几乎不变，其密度为3.20g/cm³，几乎是轴承钢的1/3。重量，旋转时离心力小，可以实现高速运转。还具有自润滑性，它可以使用到无润滑介质高污染的环境中。成为陶瓷轴承，混合陶瓷球轴承的首选材质。

Si3N4 Ceramic ball with good ability of isolation and no magnetism is the precision ceramic that fired in high temperature without oxidation air, which has the high intension, high wearing resistance, high temperature resistance, anti-canker, strong acid and alkali resistance, can be used in seawater for a long time. At 800℃, the intension and rigidity almost couldn't be changed, whose density is 3.20g/cm³ and is the 1/3 of the weight of bearing steel. There are small centrifugal force when circumgyrating and run at high speed. It also has the self-lubrication, and can be used in the environment with no lubricate medium and high pollution, which is the best material of Hybrid construction ceramic ball bearing.

碳化硅陶瓷球/Sic Ceramic ball

碳化硅陶瓷球其密度为3.20g/cm³和Si3N4球相同，在1400℃时，强度、硬度几乎不变，碳化硅陶瓷球也具有自润滑性可以解决润滑介质造成的污染，硬度比Si3N4高，但抗压强度和断裂韧性比Si3N4低。

The density of Sic Ceramic ball is 3.20g/cm³ and it's the same with Si3N4 ball, at 1400℃, the intension and rigidity almost couldn't be changed. Si3N4 Ceramic ball have the self-lubrication that can solve the pollution of lubricate medium. Comparing with Si3N4, it has higher rigidity, lower anti-press strength and lower rupture toughness.

氧化锆陶瓷球/ZrO2 Ceramic ball

氧化锆陶瓷球，在常温下具有高的强度和韧性、耐磨性好、耐高温耐腐蚀、刚度高、不导磁、电绝缘。氧化锆陶瓷球在600℃时，强度、硬度几乎不变其密度为6.00g/cm³，热膨胀率接近金属热膨胀率，可与金属接合使用。

ZrO2 Ceramic ball at routine temperature has high intension and tenacity, good wearing resistance, high temperature resistance, anti-canker, high rigidity, no magnetism, isolation for electricity. At 600℃, the intension and rigidity almost couldn't be changed, whose density is 6.00g/cm³, Its thermal expansion rate is close to metal expansion rate, and could be used in the joint with metal.

氧化铝陶瓷球/Al2O3 Ceramic ball

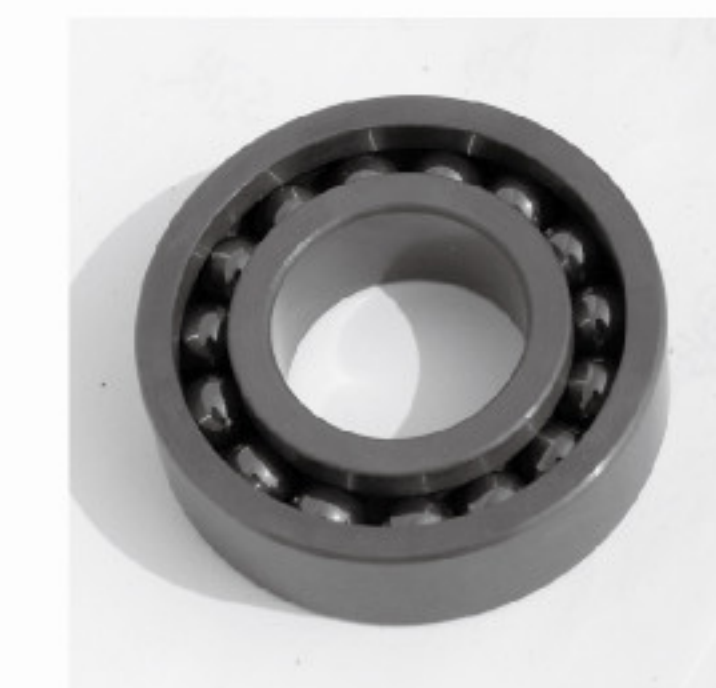
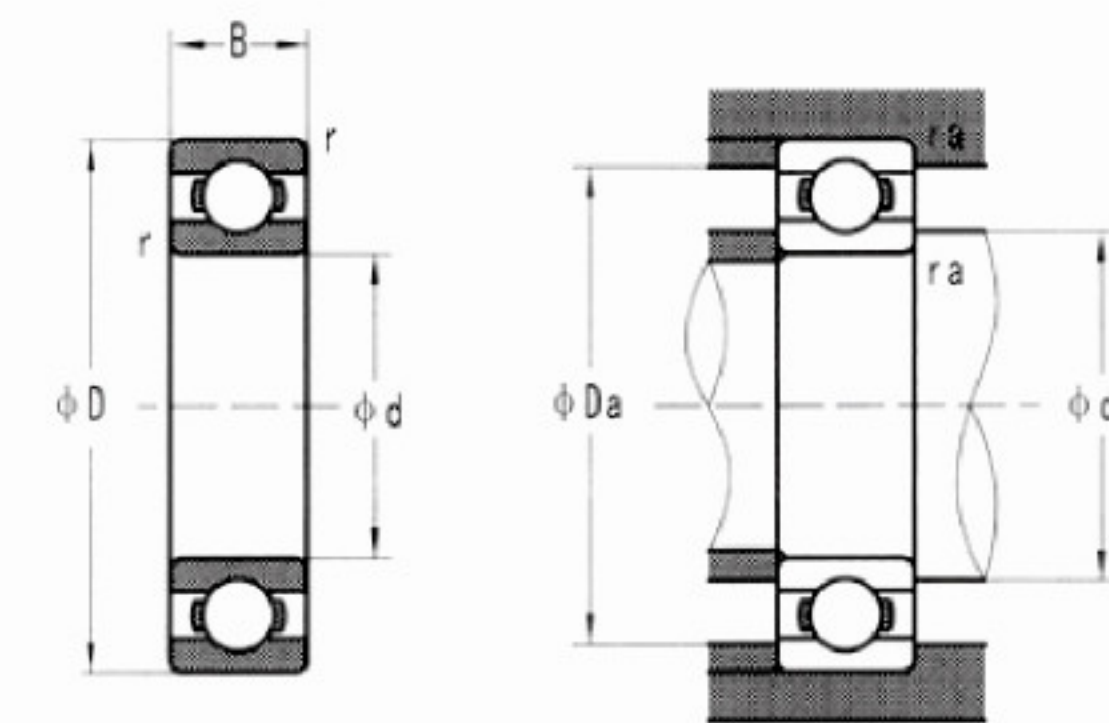
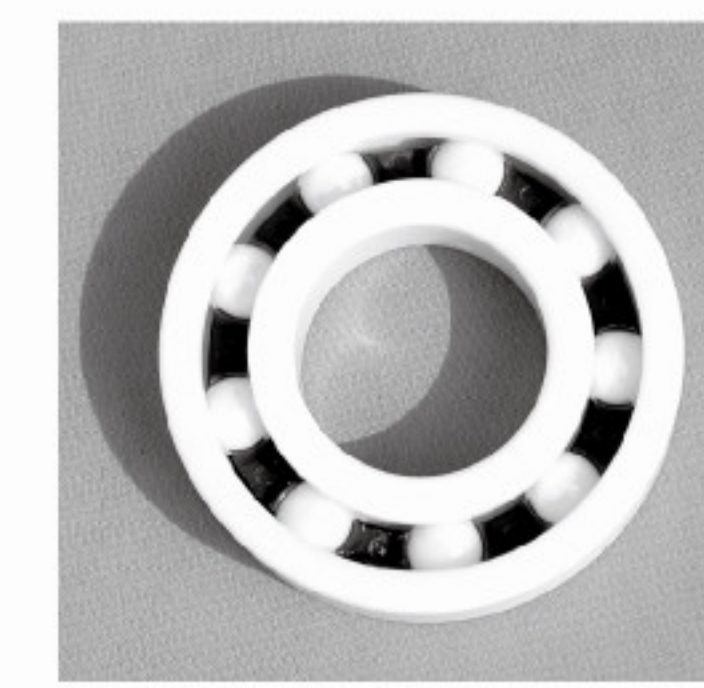
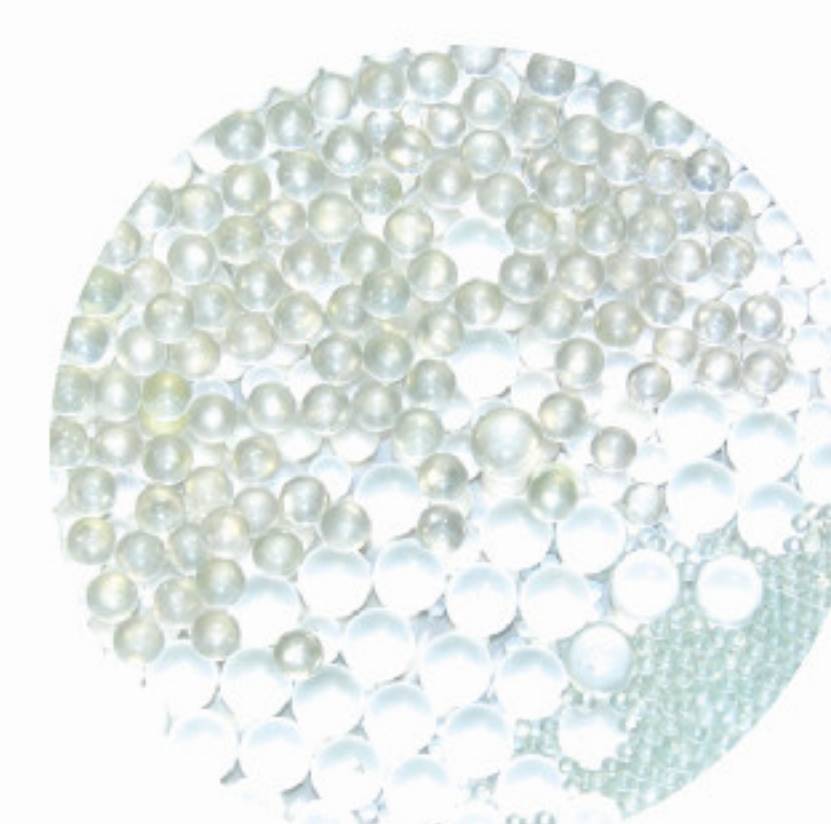
氧化铝陶瓷球在常温下具有超高的硬度在1100℃时强度，硬度不变其密度为3.7—3.99G/CM³硬度比ZrO2高，但抗弯强度和断裂韧性比ZrO2低。

Al2O3 Ceramic ball at routine temperature have the super rigidity. At 1100℃, the rigidity and intension couldn't be changed, whose density is 3.7—3.99G/CM³, the rigidity is higher than ZrO2, but the anti-bend intension and rupture toughness is lower than ZrO2.

玻璃精球/Glass Precision ball

玻璃精球的主要材料约是75%的氧化硅和15%的氧化钠及8%氧化钙组成，是一种氧化化合物。玻璃珠的化学性能稳定、具有强度高、磨耗低、耐疲劳、耐腐蚀等优良性能，其密度为2.8g/cm³，其硬度为700kg/mm²但抗压强度较高。

The materials of Glass precision ball is make up of 75% SiO₂, 15% NaO and 8% CaO, It is a kind of oxidation combination. Beading has the steady chemistry performance, high intension, anti-wearing, anti-fatigue, anti-canker and so on, whose density is 2.8g/cm³ and intension is 700kg/mm², but high intension for press.



深沟球全陶瓷轴承尺寸表 Single-row deep groove ceramic ball bearing

轴承型号 Bearing No.	外型尺寸 (mm) Boundary dimensions (mm)				相关安装尺寸 (mm) Mounting dimensions (mm)				重量 weight			轴承型号 Bearing No.
	d	D	B	r	da min	da max	Da max	ra max	参考 refer (kg)			
									ZR02	SI3N4	POM	
684CE	4	9	2.5	0.1	4.8	/	8.2	0.1	0.0005	0.0003	0.0001	P684
694CE		11	4	0.15	5.2	/	9.8	0.15	0.0013	0.0007	0.0003	P694
604CE		13	4	0.2	5.6	/	10.4	0.2	0.0017	0.0009	0.0004	P604
624CE		16	5	0.2	5.6	/	11.4	0.2	0.0023	0.0013	0.0006	P624
634CE		16	5	0.3	6	/	14	0.3	0.0040	0.0022	0.0010	P634
685CE	5	11	3	0.15	6.2	/	9.8	0.15	0.0009	0.0005	0.0002	P685
695CE		13	4	0.2	6.6	/	11.4	0.2	0.0019	0.0010	0.0005	P695
605CE		14	5	0.2	6.6	/	12.4	0.2	0.0027	0.0015	0.0007	P605
625CE		16	5	0.3	7	/	14	0.3	0.0038	0.0021	0.0010	P625
635CE		19	6	0.3	7	/	17	0.3	0.0066	0.0036	0.0016	P635
686CE	6	13	3.5	0.15	7.2	/	11.8	0.15	0.0015	0.0008	0.0004	P686
696CE		15	5	0.2	7.6	/	13.4	0.2	0.0030	0.0016	0.0007	P696
606CE		17	6	0.3	8	/	15	0.3	0.0046	0.0025	0.0011	P606
626CE		19	7	0.3	8	/	17	0.3	0.0063	0.0034	0.0016	P626
636CE		22	9	0.3	8	/	20	0.3	0.0108	0.0058	0.0027	P636
687CE	7	14	3.5	0.15	8.2	/	12.8	0.15	0.0017	0.0009	0.0004	P687
697CE		17	5	0.3	9	/	15	0.3	0.0040	0.0022	0.0010	P697
607CE		19	6	0.3	9	/	17	0.3	0.0059	0.0032	0.0015	P607
627CE		22	7	0.3	9	/	20	0.3	0.0098	0.0053	0.0024	P627
637CE		26	9	0.3	9	/	24	0.3	0.0185	0.0100	0.0046	P637
688CE	8	16	4	0.2	9.6	/	14.4	0.2	0.0025	0.0014	0.0006	P688
698CE		19	6	0.3	10	/	17	0.3	0.0056	0.0030	0.0014	P698
608CE		22	7	0.3	10	/	20	0.3	0.0093	0.0050	0.0023	P608
628CE		24	8	0.3	10	/	22	0.3	0.0130	0.0072	0.0033	P628
638CE		28	9	0.3	10	/	26	0.3	0.0220	0.0120	0.0054	P638
689CE	9	17	4	0.2	10.6	/	15.4	0.2	0.0027	0.0015	0.0007	P689
699CE		20	6	0.3	11	/	18	0.3	0.0065	0.0035	0.0016	P699
609CE		24	7	0.3	11	/	22	0.3	0.0110	0.0060	0.0028	P609
629CE		26	8	0.3	11	/	24	0.3	0.0150	0.0081	0.0038	P629
639CE		30	10	0.6	13	/	26	0.6	0.0280	0.0150	0.0070	P639
6800CE	10	19	5	0.3	12	12	17	0.3	0.0038	0.0022	0.0010	P6800
6900CE		22	6	0.3	12	12.5	20	0.3	0.0085	0.0049	0.0017	P6900
6000CE		26	8	0.3	12	13	24	0.3	0.0146	0.0085	0.0035	P6000
6200CE		30	9	0.6	14	16	26	0.6	0.0246	0.0144	0.0060	P6200
6300CE		35	11	0.6	14	16.5	31	0.6	0.0408	0.0238	0.0100	P6300
6801CE	12	21	5	0.3	14	14	19	0.3	0.0054	0.0031	0.0012	P6801
6901CE		24	6	0.3	14	14.5	22	0.3	0.0100	0.0058	0.0019	P6901
16001CE		28	7	0.3	14	15	26	0	0.0146	0.0085	0.0040	P16001
6001CE		28	8	0.3	14	15.5	26	0.3	0.0169	0.0099	0.0040	P6001
6201CE		32	10	0.6	16	17	28	0.6	0.0269	0.0157	0.0070	P6201
6301CE		37	12	1	17	18	32	1	0.0461	0.0269	0.0120	P6301
6802CE	15	24	5	0.3	17	17	22	0.3	0.0062	0.0036	0.0013	P6802
6902CE		28	7	0.3	17	17	26	0.3	0.0138	0.0081	0.0030	P6902
16002CE		32	8	0.3	17	18	30	0.3	0.0192	0.0112	0.0050	P16002
6002CE		32	9	0.3	17	19	30	0.3	0.0240	0.0139	0.0060	P6002
6202CE		35	11	0.6	19	20.5	31	0.3	0.0338	0.0198	0.0090	P6202