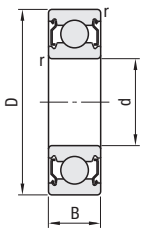
Ball Bearings for Special Environment - SUS304 / Non-Grease, Non-Oil

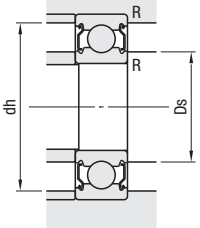
■SUS304 Ball Bearings
(Water Resistant, Heat Resistant)

RoHS10

SUB6□□ZZ
SUB6□□□ZZ



(Installation Diagram)



Operating Temperature: -40 ~ +150°C
SUS304 may be slightly magnetized after machining.

Component	Material
Inner/Outer Rings, Shield, Retainer, Ball	SUS304

Part Number	d	Tolerance	D	Tolerance	B	Tolerance	r (min)	Basic Load Rating Cr (Dynamic) N	Basic Load Rating Cor (Static) N	Allowable Rotational Speed rpm (Reference)	Relative Dimensions Ds (min)	Ds (max)	dh (max)	R (max)	Mass (g) (Reference)	Unit Price
SUB626ZZ	6	+0.05 0	19	0 -0.03	6	0 -0.12	0.3	52	32	2100	8	10	17	0.3	8.2	
SUB608ZZ	8		22		7			66	41	2000	10	11.5	20		12	
SUB628ZZ			24		8			67	42	1900		12	22		18	
SUB6000ZZ	10		26					91	59	1800	12	13.5	24		19	
SUB6200ZZ			30		9		0.6	102	72	1500	14	16	26	0.6	32	
SUB6001ZZ	12		28		8		0.3							0.3	21	
SUB6201ZZ			32	0 -0.035	10		0.6	136	92		16	17	28	0.6	37	
SUB6002ZZ	15				9		0.3	112	85	1300	17	19	30		30	
SUB6202ZZ			35		11		0.6	153	113		19	20	31		46	
SUB6003ZZ	17				10		0.3	120	98	1200		21	33		41	
SUB6203ZZ			40		12		0.6	192	144	1100	21	22	36		66	
SUB6004ZZ	20		42					188	152	1000	24	25	38		68	
SUB6204ZZ			47		14		1.0	256	200	900	25	27	42	1.0	105	

kgf=Nx0.101972

■Non-Grease, Non-Oil Ball Bearings

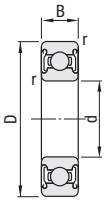
RoHS10

Clean Type
SE6□□ZZPR
SE600□ZZPR
SE620□ZZPR

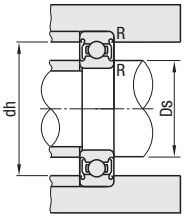
Vacuum
3NC600□ZZST

Highly Corrosion Resistant
3NC600□ZZMD

The SUS304 specification has a large radial internal clearance due to machining accuracy.



(Installation Diagram)



Bearing Accuracy	JIS B 1514 Class 0
Bearing Internal Clearance	C3
Operating Temperature	-100~+200°C
Operating Vacuum Level	10^{-5} Pa

Type	Inner and Outer Ring Material	Inner and Outer Ring Hardness	Shield Material	Rolling Element Material	Retainer Material
SE ZZPR	SUS440C (Special Fluoro-Macromolecule Coating)	60HRC	SUS304	SUS440C (Special Fluoro-Macromolecule Coating)	SUS304 (Special Fluoro-Macromolecule Coating)
3NC ZZST	SUS440C			Ceramics (Silicon Nitride)	Fluororesin
3NC ZZMD	SUS630	40HRC			

For details on the tolerance and allowable values of inner and outer rings, P.2243

Part Number: Clean Type	Vacuum	Highly Corrosion Resistant	d	D	B	r (min)	Allowable Radial Load N: SE6 Type	3NC Type	Allowable Rotational Speed rpm (Reference)	Relative Dimensions Ds (min)	Ds (max)	dh (max)	R (max)	Mass (g): SE□ZZPR	3NC□ZZST	3NC□ZZMD	Unit Price: SE□ZZPR	3NC□ZZST	3NC□ZZMD
SE624ZZPR	-	-	4	13	5	0.2	40	-	1000	5.6	6.9	11.4	0.2	2.93	-	-		-	-
SE626ZZPR	-	-	6	19	6	0.3	80	-		8	10.6	17		7.90	-	-		-	-
SE608ZZPR	-	-	8	22	7	0.3	100	-		10	12.4	20	0.3	11.81	-	-		-	-
SE6000ZZPR	3NC6000ZZST	3NC6000ZZMD	10	26	8	0.3	135	35		12	13	24		19	16	17			
SE6200ZZPR	-	-		30	9	0.6	155	50	860	14	15	26	0.6	32	-	-		-	-
SE6001ZZPR	3NC6001ZZST	3NC6001ZZMD	12	28	8	0.3	155	40	830				0.3	20	17	18			
SE6201ZZPR	-	-		32	10	0.6	205	70	770	16	16.5	28	0.6	36	-	-		-	-
SE6002ZZPR	3NC6002ZZST	3NC6002ZZMD	15	32	9	0.3	170	45	660	17	18.5	30	0.3	30	26	27			
SE6202ZZPR	-	-		35	11	0.6	230	75	610	19	19.5	31	0.6	44	38	-		-	-
SE6004ZZPR	3NC6004ZZST	-	20	42	12		280	70	500	24	25	38	0.3	63	56	-			-
SE6204ZZPR	-	-		47	14	1.0	385	130	450	25	26.5	42	0.6	105	92	-		-	-

Priority is given to the life of solid lubricant (Fluororesin Retainer). Use within the allowable load range.
Allowable rotational speed is based on 1/2 of allowable load.

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Ordering Example

Part Number
SUB6000ZZ
3NC6000ZZST

Performance Comparison of Bearings for Special Environment

Part Number	Inner/Outer Rings	Shield	Rolling Element	Retainer	Low Dust Generation	Abrasion Resistance	Corrosion Resistance and Chemical Resistance: Acid: Hydrochloric Acid	Acid: Sulfuric Acid	Acid: Nitric Acid	Alkali	Solvent	Seawater	Water	Heat Resistance	Vacuum	Insulation	Non-magnetic	Heavy Load	High Rotational Speed
SE6□□□ZZPR	SUS440C Special Fluoro-Macromolecule Coating	SUS304	SUS440C Special Fluoro-Macromolecule Coating	SUS304 Special Fluoro-Macromolecule Coating	◎	×	×	×	×	×	×	×	×	◎ (-100~200°C)	◎	×	×	△	×
3NC6□□□ZZST	SUS440C	SUS304	Ceramics	Fluororesin	○	×	△	○	○	○	○	○	◎	◎ (-100~200°C)	◎	◎	×	×	×
3NC6□□□ZZMD	SUS630	SUS304	Ceramics	Fluororesin	○	×	○	◎	◎	◎	◎	◎	◎	◎ (-100~200°C)	◎	◎	△	×	×
SUB6□□□ZZ	SUS304	SUS304	SUS304	SUS304	×	△	○	◎	◎	◎	◎	◎	◎	○ (-40~150°C)	×	×	○	×	×

The service life may be shortened drastically when used in conditions where the product is soaked in corrosive solution.

(◎Well Suited ○Good △Questionable ×Not Suitable)