
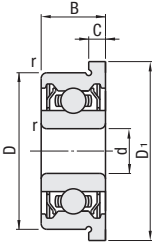
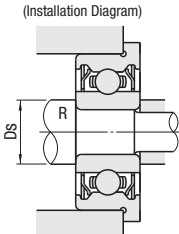


# Ball Bearings with Flange - Low Dust Generation Grease Filled



**SFLC6**□□ZZ

(Installation Diagram)

Bearing Accuracy: JIS B 1514 Class 0

Inner and Outer Ring	Shield	Rolling Element	Retainer
M Material	H Hardness	M Material	M Material
SUS440C Equivalent	57~63HRC	SUS304	SUS440C
			*SUS304

\* For SFLC673, 674, 675 and 676, Retainer material is SUS304 or SUS420J2.

RoHS 10

For details on the tolerance and allowable values of inner and outer rings, **P2243**

Part Number	d	D	B	D <sub>1</sub>	C	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions		Mass (g) (Reference)	Unit Price
							Cr (Dynamic) N	Cor (Static) N		Ds (min)	R (max)		
SFLC673ZZ	3	6	2.5	7.2	0.6	0.1	177	59	71000	3.6	0.08	0.33	
SFLC683ZZ		7	3	8.1	0.8		331	104	63000	3.9	0.1	0.53	
SFLC693ZZ		8	4	9.5	0.9	0.15	474	144	60000	4.2	0.15	0.97	
SFLC623ZZ		10		11.5	1		536	175	50000			1.86	
SFLC674ZZ	4	7	2.5	8.2	0.6	0.1	217	86	60000	4.6	0.08	0.35	
SFLC684ZZ		9	4	10.3	1		544	179	53000	5	0.1	1.14	
SFLC694ZZ		11		12.5		0.15	545	182	48000	5.2	0.15	1.96	
SFLC624ZZ		13	5	15		0.2	1105	388	40000	5.6	0.2	3.53	
SFLC675ZZ	5	8	2.5	9.2		0.6	0.1	185	72	53000	5.6	0.08	0.41
SFLC685ZZ		11	5	12.5	1	0.15		607	225	45000	6.2	0.15	2.18
SFLC695ZZ		13	4	15		0.2	915	344	43000	6.6	0.2	2.84	
SFLC605ZZ		14	5	16			1105	404	40000			3.85	
SFLC625ZZ	16	18		0.3		1470	536	36000	7	0.3	5.3		
SFLC676ZZ	6	10	3	11.2	0.6	0.1	421	174	45000	6.6	0.1	0.77	
SFLC686ZZ		13	5	15	1.1		0.15	918	352	40000	7	0.15	3.04
SFLC696ZZ		15		17	1.2	0.2	1139	418	40000	7.6	0.2	4.26	
SFLC606ZZ		17	19	0.3			1921	668	38000	8	0.3	6.61	
SFLC626ZZ	19	6	22			1.5	1986	708	32000			9.09	
SFLC678ZZ	8	12	3.5	13.6		0.8	0.1	462	219	40000	8.8	0.1	1.15
SFLC688ZZ		16	5	18	1.1	0.2		1368	568	36000	9.6	0.2	4.47
SFLC698ZZ		19	6	22	1.5	0.3	1901	728	36000	10	0.3	8.3	
SFLC608ZZ		22	7	25			2799	1103	34000			13	

kgf=Nx0.101972

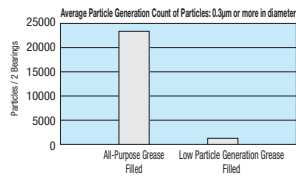
Ordering Example **Part Number**  
SFLC623ZZ

## Comparison of Particle Generation Characteristics of Ball Bearings

① Grease Performance and Operating Environment

		All-Purpose Grease Filled / Low Dust Generation Grease Filled		
		B6□□ZZ	SBC6□□ZZ	SFLC6□□ZZ
Grease Performance	Thickener	Lithium Soap	Lithium Soap	Lithium Soap
	Base Oil	Mineral Oil	Synthetic Oil	Poly α-Olefin
	Base Oil Dynamic Viscosity (40°C, mm <sup>2</sup> /s)	26	100	25
	Worked Penetration	270	315	181
	Dropping Point (°C)	170~190	216	203
	Evaporation (wt%)	0.32 (99°Cx22h)	0.43 (99°Cx22h)	0.14 (99°Cx22h)
	Separation (100°Cx24h, wt%)	2.9	0.57	0.1
	Operating Temperature (°C)	In Air: -25~+120 In Vacuum: Unsuitable	-10~+80 Unsuitable	-10~+80 Unsuitable

## ② Comparison of Particle Generation Characteristics



\* Data below are for reference, not guaranteed.

**Evaluation Conditions**

- Bearing : 6205 Open
- Load : 5 to 10% of dynamic load rating
- Rotational Speed : 450rpm
- Environment : In air, inside a clean bench (Class 10)
- Temp. : Room temperature

\* Test Equipment Overview

Magnetic Fluid Seal