

沃科为全球工业提供优质的零部件
Voke for global industry to provide quality parts



嘉善沃科汽车部件有限公司
JIASHAN VOKE AUTO PARTS CO., LTD.

SF-2 边界润滑轴承



JIASHAN VOKE AUTO PARTS



COMPANY PROFILE

公司简介

嘉善沃科汽车部件有限公司是一家研究和生产各种自润滑轴承、无油轴承、滑动轴承等系列产品的专业厂家。公司拥有专业化的团队，先进齐全的设备，科学完善的管理，产品销售遍布全球各地，深受广大国内外客户的信任与好评。

公司主要产品有：JDB系列自润滑轴承、SF系列无油轴承、JF系列双金属滑动轴承、FB系列单金属滑动轴承、FZ系列钢球保持架、垫片、滑板、轴瓦等十多种系列，上万种规格。产品质量与性能均已达到国内领先水平，广泛配套于各种机械设备的转动和滑动部位。

我们不断致力于新产品和新领域的开发和推广，为客户提供有价值的产品，用心打造完美的品质，更好的回报客户。我们始终本着：以信为本、以质取胜、开拓创新、做强做大的宗旨目标，欢迎广大客户莅临我公司参观指导，一起携手共创美好未来！

JIASHAN VOKE AUTO PARTS CO., LTD., specializes in research and production of a variety of self-lubricating bearings, oil-free bearings, sliding bearings. The company has professional teams, advanced equipments, scientific management. Products are sold throughout the world and popular by the domestic and overseas customers.


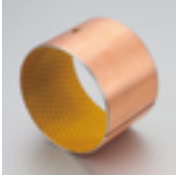
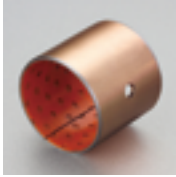

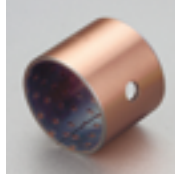
Main products are: JDB series self-lubricating bearings, SF, oil-free bearings, JF series bimetal sliding bearing, FB series single metal sliding bearings, FZ series steel ball cage, gaskets, skateboard, bearings, dozens of series, thousands of specifications. Products have taken lead in quality and performance domestically and widely used as a complete set of rotating and sliding parts in all kinds of mechanical equipments.

We are constantly committed to new products and new areas of development and promotion, to provide customers with valuable products, build perfect quality attentively, high returns. We are always in line with faith, quality, innovation, and pursue a big goals, welcome customers to visit our company for guidance, to join hands in creating a better future together!

SF-2 边界润滑轴承 SF-2 Boundary Lubricating Bearing

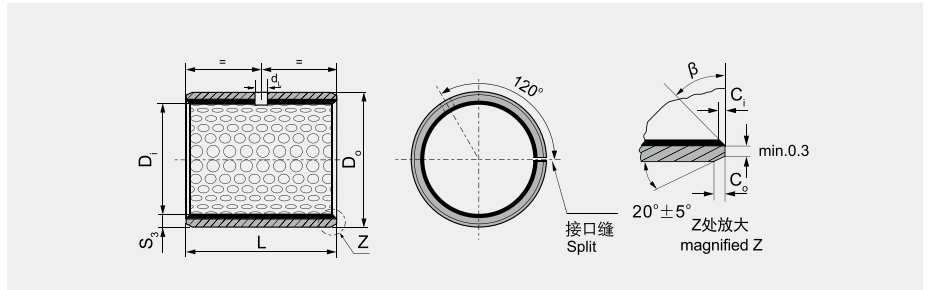
实际运用中根据使用环境、工况和环保要求的不同，表面塑料层 POM/PEEK 里可以添加不同的填充材料。产品范围包括：SF-2（黑）、SF-2Y（黄）、SF-2S（橙）、SF-2L（蓝）、SF-2P（PEEK）。

According to the different working conditions and environmental protection, the POM or PEEK layer with different polymer filler, Surface tin or copper plating. product range includes SF-2 (black)、SF-2Y (yellow)、SF-2S (orange)、SF-2L (blue)、SF-2P (PEEK) .

有关数据 Data	代号 Grade	SF-2（黑）	SF-2Y（黄） (lead free)	SF-2S（橙） (lead free)	SF-2L（蓝） (lead free)	SF-2P (PEEK)
	材料 Material	碳钢/Steel+铜粉/ Bronze+(POM+Pb)	碳钢/Steel+铜粉/ Bronze+POM	碳钢/Steel+铜粉/ Bronze+POM	碳钢/Steel+铜粉/ Bronze+POM	碳钢/Steel+铜粉 /Bronze +(PTFE+PEEK)
除了目录中显示的标准产品外，还可以提供非标产品或根据客户要求订购。 We can also develop according to customers special request while out of this table.						
最大承载压力P Max load capacity P	静载 N/mm ² Static load	140	140	140	110	140
	动载 N/mm ² Dynamic load	70	70	70	45	100
最大线速度V Max line speed V		2.5	2.5	2.5	2.5	2.5
最高PV值 N/mm ² ·m/s PV value limit	脂润滑 Greases lubrication	2.8	2.8	2.8	2.8	2.5
摩擦系数u Friction coef u		0.06~0.12	0.06~0.12	0.06~0.12	0.05~0.1	0.08~0.12
相配轴径 Mating Axis	硬度 HB Hardness	>270	>270	>270	>270	>270
	粗糙度 Ra Roughness	0.4~1.25	0.4~1.25	0.4~1.25	0.4~1.25	0.4~1.25
工作温度℃ Working temperature		-60~+120	-40~+120	-40~+120	-60~+120	-150~+250
导热系数 W/mk Thermal conductivity		52	52	52	52	52
线膨胀系数（轴向） Coefficient of linear xpansion		11 × 10 ⁻⁶ /K	11 × 10 ⁻⁶ /K	11 × 10 ⁻⁶ /K	11 × 10 ⁻⁶ /K	11 × 10 ⁻⁶ /K
针对性运用领域 Pertinence applicaton		产品应用于汽车底盘、锻压机床、冶金机械、矿山机械、水利行业、轧钢行业等。 It's used in vehicle chassis, forming machine tools, steel metallurgical machinery, mineral mountain machinery, hydraulic industry and rolling steel industry, etc.				产品应用于锻压机床、冶金机械、矿山机械、液压马达等高端应用。 The product is applied in forging press, metallurgy machine, mine machine, irrigation industry, hydraulic moto high-end application, etc.

SF-2 边界润滑轴承规格及公差

SF-2 Boundary Lubricating Bearing Specification & Tolerance



内外倒角 ID and OD chamfers

S_3	C_0	C_1	β	S_3	C_0	C_1	β
1.0	0.6 ± 0.3	0.30 ± 0.2	$30^\circ \pm 5^\circ$	2.00	1.2 ± 0.4	0.50 ± 0.3	$30^\circ \pm 5^\circ$
1.5	0.7 ± 0.3	0.50 ± 0.2	$30^\circ \pm 5^\circ$	2.50	1.8 ± 0.6	0.80 ± 0.3	$45^\circ \pm 5^\circ$

单位Unit: mm

轴径 Shaft D_s h8	座孔 Housing H7 D_H	(OD) 外径公差 Tolerance D_o	(ID)压装后 内孔公差 After fixed D_i	配合 间隙 Clearance D_o	壁厚 Wall thick-ness S_3	油孔 Oil hole d_i	长度L ⁰ _{-0.40}																									
							15	20	25	30	35	40	45	50	60	80	90	95	100	110	120											
15	17 ^{+0.018}	17 ^{+0.065} / _{+0.030}	15.108 15.040	0.135 0.040	0.980	4	1515	1520	1525																							
16	18 ^{+0.018}	18 ^{+0.065} / _{+0.030}	16.108 16.040	0.138 0.040	0.955	4	1615	1620	1625																							
18	20 ^{+0.021}	20 ^{+0.075} / _{+0.035}	18.111 18.040	0.138 0.040		4	1815	1820	1825																							
20	23 ^{+0.021}	23 ^{+0.075} / _{+0.035}	20.131 20.050	0.164	1.475	4	2015	2020	2025	2030																						
22	25 ^{+0.021}	25 ^{+0.075} / _{+0.035}	22.131 22.050	0.164	1.445	4	2215	2220	2225	2230																						
25	28 ^{+0.021}	28 ^{+0.075} / _{+0.035}	25.131 25.050	0.188	1.935	6	2515	2520	2525	2530																						
28	32 ^{+0.025}	32 ^{+0.085} / _{+0.045}	28.155 28.060	0.188	1.970	6		2820	2825	2830																						
30	34 ^{+0.025}	34 ^{+0.085} / _{+0.045}	30.155 30.060	0.194	1.935	6		3020	3025	3030	3035	3040																				
35	39 ^{+0.025}	39 ^{+0.085} / _{+0.045}	35.155 35.060	0.194	0.060	6		3520	3525	3530	3535	3540																				
40	44 ^{+0.025}	44 ^{+0.085} / _{+0.045}	40.155 40.060	0.234	0.080	8		4020	4025	4030	4035	4040	4045	4050																		
45	50 ^{+0.025}	50 ^{+0.085} / _{+0.045}	45.195 45.080	0.239	0.080	8		4520	4525	4530	4535	4540	4545	4550																		
50	55 ^{+0.030}	55 ^{+0.100} / _{+0.055}	50.200 50.080	0.246	0.080	8				5030	5035	5040	5045	5050	5060																	
55	60 ^{+0.030}	60 ^{+0.100} / _{+0.055}	55.200 55.080	0.246	0.080	8				5530	5535	5540	5545	5550	5560																	
60	65 ^{+0.030}	65 ^{+0.100} / _{+0.055}	60.200 60.080	0.313	0.100	9.5				6030	6035	6040	6045	6050	6060																	
65	70 ^{+0.030}	70 ^{+0.100} / _{+0.055}	65.200 65.080	0.321	0.100	9.5						6540	6550	6560																		
70	75 ^{+0.030}	75 ^{+0.100} / _{+0.055}	70.200 70.080	0.246	0.080	8						7040	7050	7060	7080																	
75	80 ^{+0.030}	80 ^{+0.100} / _{+0.055}	75.200 75.080	0.313	0.100	9.5						7540	7550	7560	7580																	
80	85 ^{+0.035}	85 ^{+0.120} / _{+0.070}	80.265 80.100	0.313	0.100	9.5						8040	8050	8060	8080																	
85	90 ^{+0.035}	90 ^{+0.120} / _{+0.070}	85.265 85.100	0.321	0.100	9.5						8540	8550	8560	8580																	
90	95 ^{+0.035}	95 ^{+0.120} / _{+0.070}	90.265 90.100	0.321	0.100	9.5						9040	9050	9060	9080	9090																
100	105 ^{+0.035}	105 ^{+0.120} / _{+0.070}	100.265 100.100	0.321	0.100	9.5							10050	10060	10080	10090	10095															
105	110 ^{+0.035}	110 ^{+0.120} / _{+0.070}	105.265 105.100	0.321	0.100	9.5								10550	10560	10580	10590	10595	105100	105110												
110	115 ^{+0.035}	115 ^{+0.120} / _{+0.070}	110.265 110.110	0.321	0.100	9.5									11050	11060	11080	11090	11095	110100	110110											
120	125 ^{+0.040}	125 ^{+0.170} / _{+0.100}	120.270 120.110	0.321	0.100	9.5										12050	12060	12080	12090	12095	120100	120110										
125	130 ^{+0.040}	130 ^{+0.170} / _{+0.100}	125.270 125.110	0.321	0.100	9.5											12550	12560	12580	12590	12595	125100	125110									
130	135 ^{+0.040}	135 ^{+0.170} / _{+0.100}	130.270 130.110	0.321	0.100	9.5												13050	13060	13080	13090	13095	130100	130110								
140	145 ^{+0.040}	145 ^{+0.170} / _{+0.100}	140.270 140.110	0.321	0.100	9.5													14050	14060	14080	14090	14095	140100	140110							
150	155 ^{+0.040}	155 ^{+0.170} / _{+0.100}	150.270 150.110	0.321	0.100	9.5														15050	15060	15080	15090	15095	150100	150110						
160	165 ^{+0.040}	165 ^{+0.170} / _{+0.100}	160.270 160.110	0.321	0.100	9.5															16050	16060	16080	16090	16095	160100	160110					
170	175 ^{+0.040}	175 ^{+0.170} / _{+0.100}	170.270 170.110	0.321	0.100	9.5																17050	17060	17080	17090	17095	170100	170110				
180	185 ^{+0.046}	185 ^{+0.210} / _{+0.130}	180.276 180.110	0.339	0.110	9.5																	18050	18060	18080	18090	18095	180100	180110			
190	195 ^{+0.046}	195 ^{+0.210} / _{+0.130}	190.276 190.110	0.339	0.110	9.5																		19050	19060	19080	19090	19095	190100	190110		
200	205 ^{+0.046}	205 ^{+0.210} / _{+0.130}	200.276 200.110	0.339	0.110	9.5																			20050	20060	20080	20090	20095	200100	200110	200120



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