



SF-2

边界润滑轴套 BOUNDARY LUBRICATING BUSHING

产品介绍

Product introduction

SF-2边界润滑轴承，是以钢板为基体，中间烧结球型青铜粉，表面轧制改性聚甲醛（POM），并含有储油坑。它适用于常温条件下，低速中载的场所，取代传统铜套，既降低成本又延长使用寿命。特殊情况下，在轧钢机上使用，又能节省加油频次、简化更换程序。该产品已广泛应用于汽车底盘、锻压机床、冶金矿山机械、工程机械、水电、轧钢行业等领域。

SF-2 boundary lubrication bushing is based on a composite material with 3 firmly bonded layers: steel as backing, sintered bronze spherical powder as interlayer and modified POM as lining layer, It fits well for low speed, middle-load and normal temperature and saves cost and prolongs working life when replacing normal all copper sleeves. It is widely applied in auto chassis, forging machine, metallurgical and mining machine, civil engineering, power station, strip rolling industries, etc.

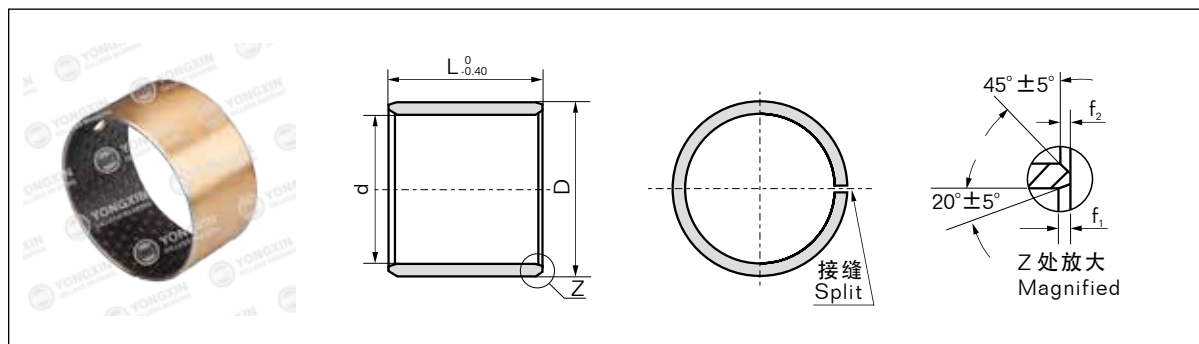
使用参数

The use of parameters

参数 Parameters	SF-2 边界润滑轴承 Marginal Bearing	SF-2H 无铅边界润滑轴承 Lead Free Marginal Bearing	SF-2S 无铅边界润滑轴承 Lead Free Marginal Bearing	SF-2L 无铅边界润滑轴承 Lead Free Marginal Bearing
				
最大承载压力P(静) Max load capacity P(Static)	250 N/mm ²	250 N/mm ²	250 N/mm ²	250 N/mm ²
最大承载压力P(动) Max load capacity P(Dynamic)	140 N/mm ²	140 N/mm ²	140 N/mm ²	140 N/mm ²
最大线速度 V(脂) Max line speed V(Grease)	2.5m/s	2.5m/s	2.5m/s	2.5m/s
最高 PV 值(脂) Max imum PV value(Grease)	3 N/mm ² .m/s	3 N/mm ² .m/s	3 N/mm ² .m/s	3 N/mm ² .m/s
摩擦系数 μ (脂) Friction coef μ (Grease)	0.05~0.25	0.05~0.25	0.05~0.25	0.05~0.25
工作温度 Working temperature	-40℃~+110℃	-40℃~+110℃	-40℃~+110℃	-40℃~+110℃
导热系数 Thermal conductivity	4 W/(m.k)	4 W/(m.k)	4 W/(m.k)	4 W/(m.k)
线膨胀系数 Coefficient of linear expansion	11 × 10 ⁻⁶ /k	11 × 10 ⁻⁶ /k	11 × 10 ⁻⁶ /k	11 × 10 ⁻⁶ /k

SF-2 边界润滑轴套

SF-2 Boundary Lubricating Bushing



单位Unit: mm

压入座孔后的内径 I.D.after fixed	D	轴径 Shaft Dia.	座孔 Housing Bore H7	壁厚 Wall Thickness	油孔 Oil Hole	f1	f2	L ⁰ _{-0.40}																											
								10	12	15	20	25	30	35	40	45	50	60	80	90	95	100													
5.990 6.055	12 ^{+0.065} _{+0.030}	10 ^{-0.022}	12 ^{+0.018}	0.955 0.980	4	0.6	0.3	●	●	●																									
7.990 8.055	14 ^{+0.065} _{+0.030}	12 ^{-0.027}	14 ^{+0.018}		4			●	●	●																									
9.990 10.058	16 ^{+0.065} _{+0.030}	14 ^{-0.027}	16 ^{+0.018}		4				●	●																									
11.990 12.058	17 ^{+0.065} _{+0.030}	15 ^{-0.027}	17 ^{+0.018}		4				●	●																									
13.990 14.058	18 ^{+0.065} _{+0.030}	16 ^{-0.027}	18 ^{+0.018}		4				●	●																									
14.990 15.058	20 ^{+0.075} _{+0.035}	18 ^{-0.027}	20 ^{+0.021}	1.445 1.475	4	0.6	0.4		●	●																									
15.990 16.058	23 ^{+0.075} _{+0.035}	20 ^{-0.033}	23 ^{+0.021}		4			●	●	●	●																								
16.990 17.061	25 ^{+0.075} _{+0.035}	22 ^{-0.033}	25 ^{+0.021}		4			●			●																								
17.990 18.061	28 ^{+0.075} _{+0.035}	25 ^{-0.033}	28 ^{+0.021}		6					●	●	●																							
19.990 20.071	32 ^{+0.085} _{+0.045}	28 ^{-0.033}	32 ^{+0.025}		6						●		●																						
21.990 22.071	34 ^{+0.085} _{+0.045}	30 ^{-0.033}	34 ^{+0.025}	1.935 1.970	6	1.2	0.4			●	●	●		●																					
23.990 24.071	39 ^{+0.085} _{+0.045}	35 ^{-0.039}	39 ^{+0.025}		6					●		●	●		●																				
24.990 25.071	44 ^{+0.085} _{+0.045}	40 ^{-0.039}	44 ^{+0.025}		8					●		●		●		●																			
27.990 28.085	50 ^{+0.085} _{+0.045}	45 ^{-0.039}	50 ^{+0.025}		8					●		●		●	●	●																			
28.990 30.085	55 ^{+0.100} _{+0.055}	50 ^{-0.046}	55 ^{+0.030}									●		●		●																			
31.990 32.085	60 ^{+0.100} _{+0.055}	55 ^{-0.046}	60 ^{+0.030}	2.415 2.460	8					●		●		●																					
34.990 35.085	65 ^{+0.100} _{+0.055}	60 ^{-0.046}	65 ^{+0.030}		8					●		●		●																					
37.990 38.085	70 ^{+0.100} _{+0.055}	65 ^{-0.046}	70 ^{+0.030}		8								●				●																		
39.990 40.085	75 ^{+0.100} _{+0.055}	70 ^{-0.046}	75 ^{+0.030}		8									●			●																		
44.990 45.105	80 ^{+0.100} _{+0.055}	75 ^{-0.046}	80 ^{+0.030}		8									●				●	●																
49.990 50.110	85 ^{+0.120} _{+0.070}	80 ^{-0.046}	85 ^{+0.035}		9.5									●			●	●																	
54.990 55.110	90 ^{+0.120} _{+0.070}	85 ^{-0.054}	90 ^{+0.035}		9.5									●			●	●																	
59.990 60.110	95 ^{+0.120} _{+0.070}	90 ^{-0.054}	95 ^{+0.035}		9.5									●			●	●	●																
64.990 65.110	105 ^{+0.150} _{+0.070}	100 ^{-0.054}	105 ^{+0.035}		9.5											●	●	●		●															
69.990 70.110	110 ^{+0.120} _{+0.070}	105 ^{-0.054}	110 ^{+0.035}		9.5												●	●	●		●	●													
74.990 75.110	115 ^{+0.120} _{+0.070}	110 ^{-0.054}	115 ^{+0.035}		9.5	1.8	0.6											●	●	●		●	●												
80.020 80.155	125 ^{+0.170} _{+0.100}	120 ^{-0.054}	125 ^{+0.035}	9.5																●	●		●	●											
85.020 85.155	130 ^{+0.170} _{+0.100}	125 ^{-0.063}	130 ^{+0.040}	9.5																	●	●		●	●										
90.020 90.155	135 ^{+0.170} _{+0.100}	130 ^{-0.063}	135 ^{+0.040}	9.5																		●	●		●	●									
95.020 95.155	145 ^{+0.170} _{+0.100}	140 ^{-0.063}	145 ^{+0.040}	9.5																			●	●		●	●								
100.020 100.155	155 ^{+0.170} _{+0.100}	150 ^{-0.063}	155 ^{+0.040}	2.385 2.450	9.5																	●	●		●	●									
105.020 105.155	165 ^{+0.170} _{+0.100}	160 ^{-0.063}	165 ^{+0.040}		9.5																			●	●		●	●							
110.020 110.155	175 ^{+0.170} _{+0.100}	170 ^{-0.063}	175 ^{+0.040}		9.5																				●	●		●	●						
120.070 120.210	185 ^{+0.210} _{+0.130}	180 ^{-0.072}	185 ^{+0.040}		9.5																					●	●		●	●					
125.070 125.210	195 ^{+0.210} _{+0.130}	190 ^{-0.072}	195 ^{+0.046}		9.5																						●	●		●	●				
130.070 130.210	205 ^{+0.210} _{+0.130}	200 ^{-0.072}	205 ^{+0.046}		9.5																						●	●		●	●				
140.070 140.210	225 ^{+0.210} _{+0.130}	220 ^{-0.072}	225 ^{+0.046}		9.5																							●	●		●	●			
150.070 150.210	245 ^{+0.210} _{+0.130}	240 ^{-0.072}	245 ^{+0.046}		9.5																								●	●		●	●		
160.070 160.210	255 ^{+0.260} _{+0.170}	250 ^{-0.081}	255 ^{+0.052}		9.5																									●	●		●	●	
180.070 180.216	265 ^{+0.260} _{+0.170}	260 ^{-0.081}	265 ^{+0.052}		9.5																										●	●		●	●