

SF-1

无油润滑轴承 OILLESS BUSHING

产品介绍 Product introduction

是以钢板为基体，中间烧结球形青铜粉，表面轧制聚四氟乙烯和混合物卷制而成。它具有摩擦系数小、耐磨、抗腐蚀性好和无油润滑的特点。能降低成本、缩小机械体积、避免咬轴现象和降低噪音等优点。产品已广泛应用于各种机械的滑动部位，例如：印刷机、纺织机、烟草机械、汽车、摩托车与农林机械等。

It is wall wrapped bushing made of triple layer composites material which be consisted of a steel backing, a sintered porous bronze particles interlayer and calendared and mixture as surface layer, It is of low friction coefficient, anti-wear, anti-corrosion and can be used without oil, or only a trace of oil if needed. Moreover, it is of low cost, low vibration and low noise, compacted and light. It is widely applied in various sliding articles of different kind of machines, such as textile machines, tobacoo machines, hydraulic vehicles, automobiles, agriculture and forests machinese and soon.

使用参数 The use of parameters

| 参数 Parameters | SF-1W 无铅轴承 Lead-Free Bushing | SF-1W 齿轮泵专用轴承 Gear Pump Bushing | SF-1P 往复运动轴承 Reciprocating Motion Bushing | SF-1B 青铜基轴承 Bronze-Based Bushing | SF-1D 液压专用轴承 Hydraulic Bushing | SF-1S 不锈钢耐蚀轴承 Stainless Steel Bushing |
|-------------------------------------|---|---|---|--|---|---|
| |  |  |  |  |  |  |
| 最大承载压力(动) Load capacity(Dynamic) | 140 N/mm ² | 140 N/mm ² | 140 N/mm ² | 140 N/mm ² | 140 N/mm ² | 140 N/mm ² |
| 最大承载压力(静) Load capacity(Static) | 250 N/mm ² | 250 N/mm ² | 250 N/mm ² | 250 N/mm ² | 250 N/mm ² | 250 N/mm ² |
| 摇摆运动 Oscillating | 60 N/mm ² | 60 N/mm ² | 60 N/mm ² | 60 N/mm ² | 60 N/mm ² | 60 N/mm ² |
| 最高滑动速度(油润滑) Speed limit(Oil) | 5 m/s | 10 m/s | 2.5 m/s | 5 m/s | 3 m/s | 4.5 m/s |
| 摩擦系数 μ Friction Coef. | 0.04~0.20 | 0.04~0.20 | 0.04~0.20 | 0.03~0.18 | 0.04~0.20 | 0.04~0.20 |
| 最高PV值(干) PV limit(Dry) | 3.6 N/ mm ² .m/s | 4.3 N/ mm ² .m/s | 3.6 N/ mm ² .m/s | 4.3 N/ mm ² .m/s | 3.8 N/ mm ² .m/s | 3.6 N/ mm ² .m/s |
| 最高PV值(油) PV limit(Oil) | 50 N/ mm ² .m/s | 60 N/ mm ² .m/s | 50 N/ mm ² .m/s | 60 N/ mm ² .m/s | 50 N/ mm ² .m/s | 50 N/ mm ² .m/s |
| 工作温度 Temp. Limit | -295°C ~ +280°C | -195°C ~ +280°C | -195°C ~ +280°C | -195°C ~ +300°C | -195°C ~ +280°C | -295°C ~ +270°C |
| 导热系数 Thermal conductivity | 13 W/m · k | 13 W/m · k | 13 W/m · k | 18 W/m · k | 16 W/m · k | 16 W/m · k |
| 线膨胀系数 Linear expansion | 11 × 10 ⁻⁶ /K | 11 × 10 ⁻⁶ /K | 11 × 10 ⁻⁶ /K | 21 × 10 ⁻⁶ /K | 15 × 10 ⁻⁶ /K | 15 × 10 ⁻⁶ /K |

