

氮化硅陶瓷球 Si3N4 ceramic ball

氮化硅陶瓷 (Si3N4) 是一种新型轴承材料。在轴承应用中具有低摩擦、低温升、高刚性、低离心力等特点。可实现高速、高精度、耐高温、高刚性、耐腐蚀等优良特性。

采用喷雾干燥工艺、近净成型、冷等静压、GPS-HIP 组合烧结、复合磨料研磨等工艺制造出高精度、高性能的氮化硅陶瓷球。其精度等级为 G5 , 材料等级为 I。

Silicon nitride ceramic (Si3N4) is a new kind of bearing material. In the application of bearing, it possesses low friction, low temperature rise, high rigidity, low centrifugal force and other features. It can implement high speed, high precision, high temperature, high rigidity, corrosion resistance and other good features.

Silicon nitride ceramic ball with high precision and high performance is manufactured by spray-drying process, near-net-shape, cold isotatic pressing, GPS-HIP combined sintering, compounded abrasive lapping process effectively. The precision grade of it is G5, the materials class is I.

Si3N4 ceramic ball specifications Si3N4 陶瓷球规格

| The nominal diameter of bearing ball 轴承球公称直径 | | The nominal diameter of bearing ball 轴承球公称直径 | | The nominal diameter of bearing ball 轴承球公称直径 | |
|--|------|--|-------|--|-------|
| mm | in | mm | in | mm | in |
| 0.794 | 1/32 | 5 | | 8.731 | 11/32 |
| 0.8 | | 5.5 | | 9.525 | 3/8 |
| 1 | | 5.556 | 7/32 | 11.112 | 7/16 |
| 1.588 | 1/16 | 5.953 | 15/64 | 12.303 | 31/64 |
| 2 | | 6 | | 12.7 | 1/2 |
| 2.381 | 3/32 | 6.35 | 1/4 | 13.494 | 17/32 |
| 2.5 | | 6.5 | | 14.288 | 9/16 |
| 3 | | 6.747 | 17/64 | 15.081 | 19/32 |
| 3.969 | 5/32 | 7 | | 15.875 | 5/8 |
| 4 | | 7.144 | 9/32 | 19.05 | 3/4 |
| 4.5 | | 7.5 | | 25.4 | 1 |
| 4.762 | 3/16 | 7.938 | 5/16 | 31.75 | 1 1/4 |