



所有本目录包含的“FZB”轴承产品，均体现福建福南轴承有限公司的最新技术开发和质量控制政策。如用户有在本目录中不包含的特殊要求，请另行通知我们，我们可以根据用户的具体要求来进行分析开发。

All FZB bearings available in this catalogue reflect the implementation of company's latest engineering design skill and quality assurance policy. If you have special needs that are not found in this catalogue, please be sure to contact us. We offer assistance with applicable analysis and can customize design for your special applications.

Materials 材料

轴承的使用性能和可靠性能与轴承各部件的使用有很大关系。FZB轴承的内外圈和钢球是用高质GCr15真空脱氧轴承钢制作的。GCr15轴承钢的化学成分基本等同下表所示的几种有代表性的国外轴承钢型号：

The performance and reliability of rolling bearings are closely related to the materials used for their components. FZB bearing rings and balls are made from high-quality Gcr15 vacuum-degassed bearing steel. The chemical composition of Gcr15 bearing steel is essentially equivalent to some representative foreign bearing steel types, as shown in the table below.

高碳铬轴承钢化学成分表

Chemical composition of high-carbon chrome bearing steel

表14 Table14

化学成份 (%) Analysis (%)

材料 Material		C	Si	Mn	Cr	Mo	P	S
GB/T	Gcr15	0.95-1.05	0.15-0.35	0.25-0.45	1.40-1.65	≤0.08	≤0.025	≤0.025
DIN	100Cr6	0.95-1.05	0.15-0.35	0.25-0.45	1.40-1.65		≤0.030	≤0.025
ASTM	52100	0.98-1.10	0.15-0.35	0.25-0.45	1.30-1.60	≤0.10	≤0.025	≤0.025
JIS	SUJ2	0.95-1.10	0.15-0.35	≤0.50	1.30-1.60		≤0.025	≤0.025

绝大多数球轴承的保持架都是由冷轧钢板制作的。有部分轴承型号或特殊使用情形下，轴承保持架用玻璃纤维加强尼龙66塑料，酚醛树脂或黄铜制作。

轴承座的材料一般是灰口铸铁或球墨铸铁。特殊情形下，也有铁板冲压轴承座，不锈钢轴承座和工程塑料轴承座。

Most ball bearing cages are made from cold-rolled steel sheets. For certain bearing types and special applications, cages are made of glass fiber-reinforced nylon 66 plastic, phenolic, or machined brass.

The material of bearing housings is typically gray ductile cast iron. In special cases, housings can also be made from pressed steel or engineering plastics.

Lubrication and Operating Temperature

5.带座外球面球轴承的润滑以及工作温度

5.1 润滑油脂 Lubricants

在制造过程中，轴承里面已经装入国标GB7324“锂基润滑脂”所规定的锂基2号润滑油脂。其物理和化学性质如表15所示：

The industry lithium based No.2 lubricating grease defined in GB7324 Lithium based lubricant greases is sealed in the spherical outside surface ball bearings during. Its physical and chemical properties are shown in table 15.