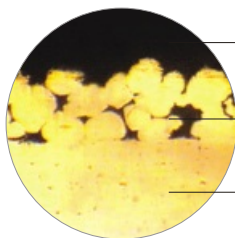


VSB11

铜基无油润滑轴承

COPPER-BASED NON-OIL LUBRICATED BEARINGS



聚四氟乙烯耐磨层

PTFE Lining 0.01~0.03mm

多孔烧结铜粉层

Porous Bronze Powder 0.20~0.30mm

青铜层

Bronze

结构特性及用途

Structure Characteristics and Applications

VSB11自润滑复合材料轴承，剖面结构（见右上图）：锡青铜背提供机械强度和承载能力，中间烧结球形多孔青铜粉，与表面聚合物（PTFE+Pb）牢固嵌合。它充分发挥了金属和聚合物的优点，具有低摩擦系数、良好的耐磨性和自润滑性能。锡青铜背热传导性好，广泛应用于冶金机械、连铸机械、水泥机械和螺旋式输送机。

VSB11 (see the above profile picture) is backed with tin-bronze with porous bronze sintered on it and polymers imbedded into the bores of the bronze. The tin-bronze back provides the products with stronger mechanic strength and load capability. By combining the metals and the polymers together, its products are endowed with the lower friction coefficient and good capacity of anti-abrasion and self-lubrication. Moreover, the tin-bronze back is of good heat conducting capability. Products of VSB11 series are widely applied in metallurgy machine and casting machines, consecutive casting machines, cemetery machines, spiral transporting machines, etc.

物理机械性能

Physical and Mechanical Performance

性能指标 Performance Index		有关数据 Data	性能指标 Performance Index		有关数据 Data
最大承载压力P Max Load	静载 Static Load	250 N/mm ²	摩擦系数 μ Friction Coefficient	脂润滑 Grease Lubrication	0.08~0.20
	动载 Dynamic Load	140 N/mm ²		油润滑 Oil Lubrication	0.02~0.07
最大线速度V Linear Velocity	振动 Oscillation Load	60 N/mm ²	相配轴 Mating Axis	硬度 Hardness	> 120 HB
	脂润滑 Grease Lubrication	2.5 m/s		粗糙度 Roughness	Ra=0.4~1.25
最高PV值 Max PV value	油润滑 Oil Lubrication	5m/s	工作温度 Working Temperature		-200~+280 °C
	脂润滑 Grease Lubrication	3.6 N/mm ² .m/s	导热系数 Heat-conducting Coefficient		60 W/(m·K)
		50 N/mm ² .m/s	热膨胀系数(轴向) Heat-expansion Coefficient(Axial)		$18 \times 10^{-6} \text{K}^{-1}$