

Wrapped Bronze Sliding Bushing

This wrapped bronze bearing is constructed from CuSn8 tin-bronze with diamond oil sockets on the surface for enhanced lubrication. It excels in heavy load, low running velocity conditions, making it suitable for agricultural, construction, and engineering machinery.



ADDITIONAL IMAGES



Product Overview



High-Performance Bronze Wrapped Bushings

The FB-090 series consists of high-density bronze sliding bearings designed for demanding industrial applications. These bushings feature diamond-shaped lubrication indentations or oil grooves on the inner surface to significantly prolong lubrication intervals and ensure smooth operation. They offer a cost-effective, lightweight alternative to traditional lathed bushings and roller bearings while maintaining exceptional load sustainability.

Key Benefits

Performance Advantages

- Significant material savings compared to lathed bronze bushings
- Lubrication intervals extended up to 5 times via integrated grease storage dents
- Extremely high load sustainability for coarse abrasion surfaces
- High resistance to fatigue at elevated temperatures
- Excellent wear resistance in boundary lubrication conditions

Technical Specifications



Performance Metrics

100 N/mm²

Load Capacity

2.5 m/s

Max Sliding Speed

1.6 N/mm²*m/s

Max PV

Material Composition

CuSn8P0.3, CuSn6.5P0.1, Tin Bronze CuSn8

Temperature Range

-40°C to 300°C

Hardness

HB 90~120

Friction Coefficient

0.08 μ

Product Variants



Standard Product Forms

Straight Bushings • Thrust Plates • Pressure Bearings

Custom/Non-Standard Forms

Planks • Bearing Bushings • Slide Plates • Steel Bushing Assembly

Applications



Common Applications

- Hoisting and construction machinery
- Automotive (Trucks, Tractors, Cars)
- Machine tools
- Mineral engines
- Agricultural machinery

Design Details



Lubrication Features

Diamond-shaped lubrication indents or rhomb oil holes for grease reservoir.