



SB-SBG Sintered Bronze Graphite Bushing

When adsorption molecular lubrication in the condition of high-speed or high pressure, oil temperature rise due to friction heat, the arrangement of adsorbed molecular disordered and to final resolve.

The extreme pressure used in SINOBRONZE products including phosphorus, sulfur and other oil-soluble organic compounds, and also including organic metal compounds like Zn, Pb, Sb etc. Their role is due to the chemical reaction between the friction heat additive and metal matrix, to form the protective film on the base metal surface, and to prevent adhesion between the metal under high pressure.

There are many types of solid lubrications, the Graphite and MoS₂ is the most commonly used into SINOBRONZE' s products, with the following characteristics of this bearings:

1. Can work under high temperature and pressure;
2. Suitable for low-speed sliding, can reduce the stick - slip phenomenon and the "cold welding";
3. Applicable to a wide temperature range, such as under the temperature of liquid nitrogen and liquid oxygen, it is still can maintain their lubricating properties;
4. Applicable to high altitude and strong solar radiation;
5. Do not react with the environmental media, solvents, fuels and combustion-supporting agent, and can be used in the environments of acid, alkali and seawater.
6. Can be used for non-sealed environment with dust;
7. Apply to prevent oil pollution of the occasion;
8. Simplify or cancel the unreliability of lubrication system ;
9. Applicable to the environment of the oil erosion loss easily.

Material Advantages

- Dry working condition, provides maintenance free operation
- High static load and dynamic load capacity
- High thermal stability
- Can be applied in widely temperature
- Suitable for radioactive environments
- Metal based materials is electrically conductive and shows no electrostatic effects
- Can applied in dirty and corrosion environment
- With lower wear rate and long life service

Typical Applications

Food Processing, Electrical Equipment, Pharmaceutical Equipment, Stove and oven, Aerospace, vacuum Technology, Glass Manufacturing Industry.

