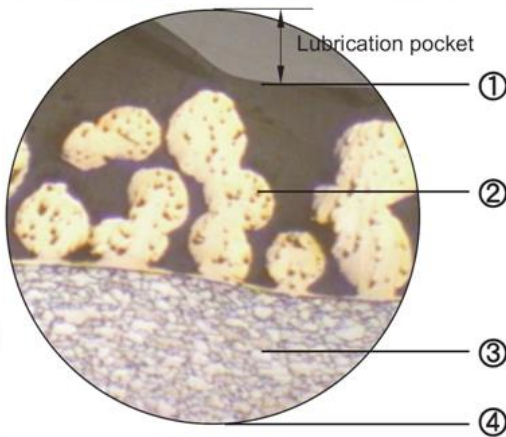


MATERIAL

AST-20 Steel Bronze Powder with POM Marginal Bearings

RoHS



Structure

1. The 0.30-0.50 mm thick POM material provides high wear resistance and low friction even with only a small volume of lubricant. The bearing surface features a pattern of recesses which should be filled with grease on assembly of the bearing.
2. The sintered bronze powder thickness of 0.20-0.35 mm, provides maximum conductivity of heat away from the bearing surface and acts as a reservoir for the resin mixture.
3. Low-carbon steel provides exceptionally high load carrying capacity and excellent heat dissipation.
4. The 0.002 mm thick Copper/Tin plating provides good corrosion resistance.

Features

Suitable for rotating and oscillating movement, the design of these bearings means less maintenance, long relubrication intervals, lower wear and lower susceptibility to edge loading. They also offer good damping behavior and resistance to shock loads and low water absorption water and swelling.

Technical Data

Max. load	Static	250N/mm ²	Max. speed	Temp. limit	-40°C~+110°C
	Very low speed	140N/mm ²		Pre-lubricated	2m/s
	Rotating oscillating	70N/mm ²		Oiling Grease Continuous	>2m/s
Max. PV		3N/mm ² *m/s	Thermal conductivity		50W(m*K) ⁻¹
Coefficient of thermal expansion		11*10 ⁻⁶ *K ⁻¹	Friction coefficient		0.05~0.20

Initial pre-lubrication at assembly is strongly recommended.



Typical Applications

Recommended for applications with intermittent operation or boundary lubrication and where lubricant cannot be supplied continuously or repeatedly.

Automotive: suspension joints, kingpin assemblies and stub axles of trucks, automobile driving joint hinges, steering and other linkages, articulation joints, rear chassis hinges, fair leader rollers.

Machine tool building industry: spindles in drilling, grinding, and milling machines, ram guide plates in multi-ram presses.

Agricultural equipment: gearbox, clutch, bale trips and wheel caster swivels for bale accumulators, front axle pivot bearings, steering idler box bearings and kingpin bearings for harvesters.

