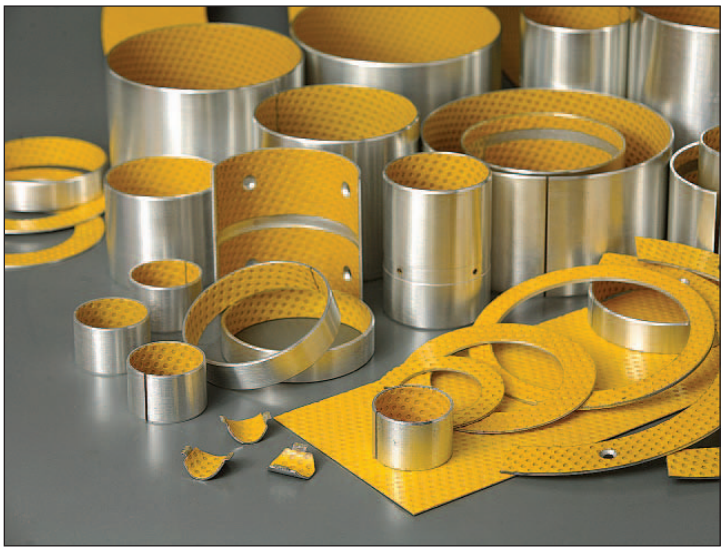
Steel Bronze Powder with POM Bushings

RoHS



Features

Suitable for rotating and oscillating movement, less maintenance requirements due to the long re-lubrication intervals, lower wear, lower susceptibility to edge loading, no absorption of water and therefore no swelling, good damping behaviours, good resistance to shock loads.

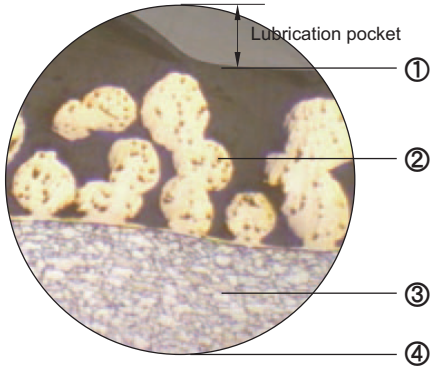
Structure

1.POM thickness 0.30~0.50 mm, it provides high wear resistance and low friction even with only minute volume of lubricant are supplied, this bearing surface carries a pattern of circular indents which should be filled with grease on assembly of the bearing.

2. Sintered bronze powder thickness 0.20-0.35mm, provides max. thermal conductivity away from the bearing surface, also serves as a reservoir for the resin mixture.

3. Low-carbon steel, provides exceptionally high load carrying capacity, excellent heat dissipation.

4. Copper/Tin plating thickness 0.002mm, provides good corrosion resistance.



Tech. Data

Max. load	Static	250N/mm^2	Temp. limit		-40°C~+110°C
	Very low speed	140N/mm^2	Max. speed	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 involving intermittent operation or boundary lubrication...

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

Machine tool building industry: spindles in drill, 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...

It is especially well-suited for applications where lubricant can not be supplied continuously or repeatedly.