

# TU-BM Steel with Lead-free Bronze Powder

RoHS

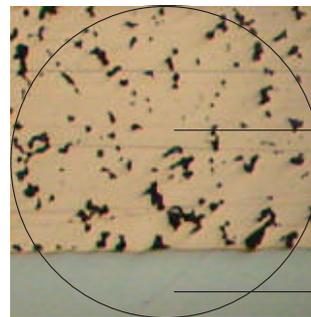


## Features

Steel backing lead-free bronze layer provides high specific loads, excellent fatigue strength under dynamic and shock load application, superior performance under oscillating movement, indents and grooves in the bearing lining provide a reservoir for grease and thus allow extended re-greasing intervals. Lead free bearing lining can meet EC directive of 2000/53/EC.

## Structure

1. **Sinter lead-free bronze powder**, provides bearing performance, have good wear resistance and excellent load carrying capacity.
2. **Steel backing**, provides exceptionally high load carrying capacity and excellent heat dissipation.



① CuSn8Ni

② Steel Back

## Tech. Data

Max. load	Static	250N/mm <sub>2</sub>	Alloy hardness	≥HB70
	Dynamic	140N/mm <sub>2</sub>		Temp.
Max. speed (Lubricated)		2.5m/s	Friction coefficient	0.05~0.20
Max. PV		2.8N/mm <sup>2</sup> *m/s	Thermal conductivity	60W(m*k) <sup>-1</sup>
Breaking Load		350N/mm <sub>2</sub>	Coef. of thermal expansion	14*10 <sup>-6</sup> *K <sup>-1</sup>

## Typical Applications

This material is recommended to be used under the medium speed and medium load condition with oil or grease lubricating. It is widely used for motor rod ends, Kingpin bushing, undercarriage rollers, hydraulic cylinder rod eyes of construction machines and spherical joint bearings of agricultural machines.