

**Bronze Backing
PTFE - Coating
Dry Bearings**



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**DU-B
BEARINGS**

DU-B Bronze Backing Dry Bearing Coating with PTFE / Fibre Mixture

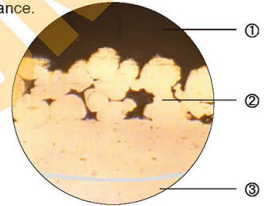


Structure

1. **PTFE/fibre mixture thickness 0.01~0.03mm**, provides an excellent initial transfer film, which effectively coats the mating surfaces of the bearing assembly, forming an oxide type solid lubricant film.
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 PTFE/Fibre mixture.
3. **Bronze backing, provides exceptionally high load carrying capacity**, excellent heat dissipation and very good corrosion resistance.

Features

Suitable for dry running, low coefficient of friction, lower wear, good sliding characteristics, the transfer film created can protect the mating metal surface, suitable for rotary and oscillating movement. Very high chemical resistance, low absorption of water and swelling, also performs very good lubrication feature, the bronze backing provides the improved corrosion resistance comparing with DU bearings.



Tech. Data

Max. load	Static	250N/mm ²	Friction coefficient		0.03~0.20
	Very low speed	140N/mm ²	Max. speed	Dry running	2m/s
	Rotating oscillating	60N/mm ²		Hydrodynamic operation	>2m/s
Max. PV dry running	Short-term operation	3.6N/mm ² m/s	Thermal conductivity		60W(m*K) ⁻¹
	Continuous operation	1.8N/mm ² m/s	Coefficient of thermal expansion		18*10 ⁻⁶ K ⁻¹
Temp. limit		-195°C~+280°C			

Typical Applications

This material meets the demanding criteria for long life and trouble-free performance with or without lubricant, of high safety factor even.

The bronze backing provides a high corrosion resistance, anti magnetic properties and a good thermal conductivity, The bearings are particularly appropriate for high

temperature environment where no oil is efficient and the machine must be under successive long period working condition. The typical applications covered Steel metallurgy industry such as bushes for roller grooves of successive casting machines, cement grouting pumps and screw conveyers for cement and so on.