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DP4

Steel Backing Coating with

PTFE/Polymer Fibres Mixture DP4-B

Bronze Backing Coating with

PTFE/Polymer Fibres Mixture



## DP4 Steel Backing / Bronze Powder / PTFE and Polymer Fibres Dry Bearing



## Features

Suitable for dry running, low coefficient of friction, lower wear, good sliding characteristics, the transfer film created can protect the mating metal surfaces, suitable for rotating and oscillating movement, high chemical resistance, low absorption of water and swelling. The DP4 improved the friction and much good wear resistance over the common DU bearing range under lubricated operation.

## Structure

- PTFE/Polymer fibres mixture thickness 0.01~0.03mm. Lead-free bearing layer provides an excellent initial transfer film, which effectively coats the mating surfaces of the bearing assembly, forming an oxide type solid lubricant film.
- 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 mixture.
- Steel backing, provides high load carrying capacity.
- excellent heat dissipation.
- 4. Copper/Tin plating thickness 0.002mm, provides good corrosion resistance.



Max. load	Static	250N/mm²
	Very low speed	140N/mm²
	Rotating oscillating	60N/mm²
Max. PV dry running	Short-term operation	3.6N/mm²*m/s
	Continuous operation	1.8N/mm²+m/s

Temp. limit		-195°C~+280°C
Max. speed	Dry running	2m/s
	Hydrodynamic operation	>2m/s
Thermal conductivity		42 W(m*K) <sup>-1</sup>
Coefficient of thermal expansion		11*10 <sup>4</sup> *K <sup>-1</sup>
Friction coefficient	Dry	0.08~0.20
	Hydrodynamic	0.03~0.08

## **Typical Applications**

DP4 is developed for high duty, oil lubricated, hydraulic applications...Automotive suspension struts, shock absorbers guide bushing, hydraulic cylinders, gear pumps, motors, axial and radial piston pumps & motors. DP4 is designed mainly for using under lubricated conditions and it performs excellent wear resistance and low static/dynamic friction coefficient.