

**Steel Backing
PTFE & PEEK Coating
Dry Bearings**



SINO BRONZE CO., LTD.
www.sinobronze.com
sales@sinobronze.com

HX
BEARINGS

HX Steel Backing, Bronze Powder with PEEK/PTFE Marginal Bearings



Features

1. HX bearing provides maintenance-free operation;
2. Operate satisfactorily without lubrication under light duty and low speed;
3. HX bearing has a high PV capability under high temperature, from -150°C to $+250^{\circ}\text{C}$;
4. Good chemical resistance;
5. High static and dynamic capacity.
6. No water absorption;
7. Suitable for rotating, oscillating, reciprocating and sliding movement.

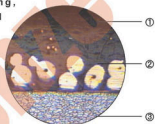
Structure

1. PEEK+PTFE 0.30-0.50mm, gives high wear resistance and low friction even only minute quantities 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. Bronze layer 0.20-0.35mm, provides max. thermal conductivity away from the bearing surface, also serves as a reservoir for the PTFE/PEEK mixture.

3. Steel backing, provides mechanical strength and high load carrying capacity.

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



Tech. Data

Max. load	Static	250N/mm ²	Friction coefficient	0.03-0.20		
	Very low speed	140N/mm ²		Max. speed	Pre-lubricated	2m/s
	Rotating oscillating	60N/mm ²			Oiling Grease	Continuous
Max. PV	Short-term operation	3.6N/mm ² *m/s	Thermal conductivity	50 W/(m*K) ¹		
	Continuous operation	1.8N/mm ² *m/s	Coefficient of thermal expansion	11*10 ⁻⁶ /K ¹		
Temp. limit	-150°C~+250°C					

Typical Applications

HX bearings application covered gear pump, ABS system, piston pump, gear motor, machine tools, agricultural machinery and so on. The materials is recommended with initial pre-lubrication at assembly.

Available

- Cylindrical Bushes
- Thrust Washers
- Non-standard parts as design