

# PyroSlide™ 1100

## POWDER METAL SINTERED ALLOY



## APPLICATIONS

**Automotive** - EGR valves, exhaust heat recovery systems (EHRS), exhaust throttle valves, exhaust breaks, turbocharger wastegate valves

**Industrial** - Industrial & domestic ovens and furnaces, natural gas/petrochemical valves, exhaust or smoke flaps, high temperature valves, heavy-duty engines, applications with elevated temperatures & corrosion risk, industrial processing plant applications, gas and steam turbines

**Aerospace** - Engine turbo fans, engine guide vanes, engine pneumatic-bleed valves

## CHARACTERISTICS

- Powder metallurgical bearing material consisting of a solid lubricant homogeneously distributed in a metallic matrix
- Self-lubricating and maintenance-free by forming a solid lubricant film during the relative motion
- Excellent high-temperature resistance
- High wear resistance
- Low-friction properties
- Resistant to corrosive environments
- High load capacity
- High dimensional precision
- No requirement to operate against high cost special countersurface materials with specific hardness requirements, a standard stainless steel counter surface is appropriate

## AVAILABILITY

**Bearing forms made to order:** According to customer design/drawing. Regardless of shape size or material, we can customize your shape. High volume production is feasible.



BEARING PROPERTIES		UNIT	VALUE
<b>GENERAL</b>			
Maximum load, p	Static (at 20°C/68°F)	MPa	200
	Dynamic (at 550°C/1022°F)	MPa	10
	Dynamic (at 750°C/1382°F)	MPa	2
Operating temperature	Min	°C / °F	- 50 / - 60
	Max	°C / °F	800 / 1472
Coefficient of linear thermal expansion		10 <sup>-6</sup> /K	16 - 18
<b>DRY</b>			
Maximum sliding speed, U		m/s	0.1
Maximum pU factor		MPa x m/s	0.6
Coefficient of friction, f			0.20 - 0.45
<b>MATING MATERIAL</b>			
Surface roughness, Ra		µm	0.2 - 0.8
Surface hardness		HB	> 200

Actual values can vary depending on conditions of specific applications.

**OPERATING PERFORMANCE**  
 Designed and intended for dry running applications operating at elevated temperatures

# PyroSlide™

PRODUCT LINE  
 TEMPERATURE RANGE

## TEMPERATURE

## PYROSLIDE™

