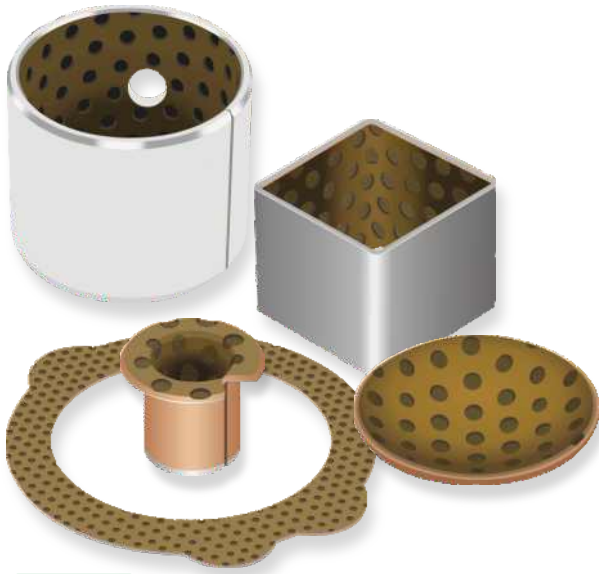


## DX<sup>®</sup>10

### METAL-POLYMER PLAIN BEARINGS GREASE LUBRICATED



### APPLICATIONS

**General** – Greased or oiled applications with high load, high temperature, and contamination; ideal for replacing bi-metal or bronze bushings to achieve improved wear performance

**Automotive** – King pins, oil pumps

**Industrial** – Piston pumps, agriculture equipment, construction, lift and cranes, small reciprocating bushing

### CHARACTERISTICS

- Perfect for heavy duty and harsh environments
- Excellent chemical resistance
- Excellent erosion resistance
- Good fatigue strength
- Good wear performance
- Can be broached for tighter tolerance
- Lead-free material compliant to EVL, RoHS and WEEE specifications

### AVAILABILITY

**Bearing forms made to order:** Cylindrical bushes, thrust washers, sliding plates, half-bearings, special shapes obtained by stamping, bearings with locating notches, lubricant holes and machined grooves, customized bearing designs



BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
<b>GENERAL</b>					
Maximum load, p	Static	psi	36 000	N/mm <sup>2</sup>	250
	Dynamic	psi	20 000	N/mm <sup>2</sup>	140
Operating temperature	Min	°F	- 40	°C	- 40
	Max	°F	350	°C	175
<b>GREASE LUBRICATED</b>					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	80 000	N/mm <sup>2</sup> x m/s	2.8
Coefficient of friction, f			0.01 - 0.10		0.01 - 0.10
<b>OIL LUBRICATED</b>					
Maximum sliding speed, U		fpm	2 000	m/s	10.0
Maximum pU factor		psi x fpm	80 000	N/mm <sup>2</sup> x m/s	2.8
Coefficient of friction, f			0.01 - 0.06		0.01 - 0.06
<b>RECOMMENDATIONS</b>					
Shaft surface roughness, Ra	Lubricated	µin	≤ 16	µm	≤ 0.40
Shaft surface hardness	Normal	HB	> 200	HB	> 200
	For longer service life	HB	> 350	HB	> 350

OPERATING PERFORMANCE	
Dry	Fair
Oil lubricated	Very Good
Grease lubricated	Very Good
Water lubricated	Poor
Process fluid lubricated	Fair

FOR SUPERIOR / LEAD-FREE PERFORMANCE	
Dry	GAR-MAX / HSG / GAR-FIL / MLG
Water lubricated	HPM / HPF / DP4-B
Process fluid lubricated	DP4 / HI-EX / GAR-FIL

**MICROSECTION**

