

# HSG

## HIGH-LOAD FIBER REINFORCED COMPOSITE PTFE BEARINGS



#### **APPLICATIONS**

**Industrial** – Steering linkages, hydraulic cylinder pivots, king pin bearings, boom lifts, scissor lifts, cranes, hoists, lift gates, backhoes, trenchers, skid steer loaders, front end loaders, etc.

#### **CHARACTERISTICS**

- Self-lubricating plain bearing material
- High static load capacity (twice as much as standard GAR-MAX® bearings)
- Excellent shock and misalignment resistance
- Excellent contamination resistance
- Very good friction and wear properties
- Good chemical resistance

#### **AVAILABILITY**

#### Bearing forms available in standard dimensions:

Plain cylindrical bushes

**Bearing forms made to order:** cylindrical bushes with non-standard lengths and wall thickness, flanged bearings, hexagonal and square bores, liner on outer diameter, customized bearing designs







#### **HSG DATASHEET**



BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
GENERAL					
Maximum load, p	Static	psi	60 000	N/mm²	415
	Dynamic	psi	20 000	N/mm <sup>2</sup>	140
Operating temperature	Min	°F	-320	°C	- 195
	Max	°F	320	°C	160
DRY					
Maximum sliding speed, l	J	fpm	25	m/s	0.13
Maximum pU factor		psi x fpm	30 000	N/mm² x m/s	1.05
Coefficient of friction, f			0.05 - 0.30*		0.05 - 0.30*
RECOMMENDATIONS					
Shaft surface roughness, Ra		μin	6 - 16	μm	0.15 - 0.40
Shaft surface hardness	Normal	НВ	> 350	НВ	> 350
	For longer service life	НВ	> 480	НВ	> 480

<sup>\*</sup> Depending on operating conditions

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

FOR SUPERIOR PERFORMANCE	
Oil lubricated	GAR-FIL
Grease lubricated	DX / DX10
Water lubricated	HPF / HPM
Process fluid lubricated	GAR- FIL

### **MICROSECTION**

