



SBC with HSG

SEALED FIBER REINFORCED COMPOSITE 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 bearings
- High static load capacity
- Excellence resistance to shock loading and misalignment
- Very good friction and wear properties
- Good chemical resistance
- Sealed to exclude contaminants to offer extended service life
- Environmentally friendly and eliminates need for automated grease system and grease

AVAILABILITY

Bearing forms made to order: GGB SBC with HSG sealed assemblies with or without steel outer shell, customized bearing designs



BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
GENERAL					
Maximum load, p	Static	psi	60 000	N/mm ²	415
	Dynamic	psi	20 000	N/mm ²	140
Operating temperature	Continuous	°F	200	°C	93
	Intermittent	°F	220	°C	104
DRY					
Maximum sliding speed, U		fpm	25	m/s	0.13
Maximum pU factor		psi x fpm	30 000	N/mm ² x m/s	1.05
RECOMMENDATIONS					
Shaft surface roughness, Ra		µin	6 - 16	µm	0.15 - 0.40
Shaft surface hardness	Normal	HB	> 350	HB	> 350
	For longer service life	HB	> 480	HB	> 480

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

MICROSECTION

