

# 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		UNITS	VALUE
<b>GENERAL</b>			
Maximum load, p	Static	N/mm <sup>2</sup>	415
	Dynamic	N/mm <sup>2</sup>	140
Operating temperature	Continuous	°C	93
	Intermittent	°C	104
<b>DRY</b>			
Maximum sliding speed, U		m/s	0.13
Maximum pU factor		N/mm <sup>2</sup> x m/s	1.05
<b>RECOMMENDATIONS</b>			
Shaft surface roughness, Ra		µm	0.15 - 0.40
Shaft surface hardness	Normal	HB	> 350
	For longer service life	HB	> 480

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

**MICROSECTION**

