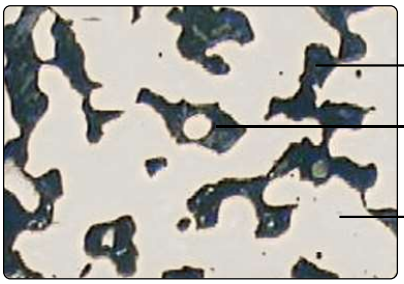
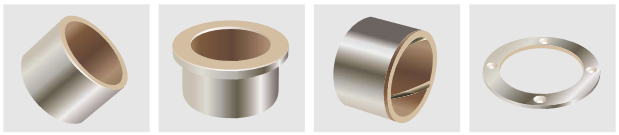
CSB85H Powder Metallurgy Sintered with Solid Lubricants





Structure

Designed with iron copper alloy as base material and processed by powder metallurgy sintering technology. The graphite uniformly dispersed in the material and impregnated with oil provides an almost same dynamic and static friction factor. When the friction occures, these solid lubricants will be released to the bearing and the mating surface, easily form a firmly adhensive solid lubricant film, thus to keep the friction only act inside the lubricant in order to keep a relatively low wear rate.

Tech. Data

Material code			Unit	CSB85HFL	CSB85HFH
Structure			----	Sintered alloy	Sintered alloy
Bearing alloy			----	Fe+Cu+SL	Fe+Cu+SL
Bearing alloy hardness			----	HB>80	HRB>70
Bearing alloy density			g/cm^3	6.0~6.3	6.0~6.3
Oil impregnate			vol%	12%	12%
Max. Load	Static load		Mpa	50	75
	Dynamic load	Dry		20	25
		Lubrication		30	50
Max. V	Dry		m/s	0.5	0.5
	Lubricated			1.5	1.0
Max. PV	Dry		$N/mm^2*m/s$	1.6	1.6
	Lubricated			2.5	2.5
Service temperature			°C	-40~+120	-40~+120

Typical Applications

- Joint bushes for excavator
- Pin bushes for hydraulic cylinder
- Link bushes for construction and heavy industry machinery, like wheel loader, dump truck, forklift, crane etc.
- Tie-bar, Cross guide bar bushes for Injection molding machinery, die casting machinery
- Industrial robot joint bushes
- Guide bushes for mold