

CSB-SNF Powder Sintered Bearings



Structure

The base material for sintered parts such as sliding bearings or other formed parts are iron, bronze, iron with bronze and other metal in powder form. This powder is formed under high pressure in dies into a temperature which is just below the melting point. According to the work condition, the bearings can impregnate with different oil or solid lubricants for the self-lubricating. Sintered self-lubricating bearings are the ideal and economical solution for applications where lubrication is difficult or lubrication could not be applied.

Features

1. Good wear resistance with lower friction
2. Lower maintenance requirement
3. Lower the material cost for large production
4. High speed with lower noise
5. Can be machined again after installation if possible
6. Different structures could be available against special request

Tolerance

Inside Diameter ID: F7

Outside Diameter OD: r7

Flange Diameter: js13

Flange Thickness: js13

Length: js13

Main Material Supply

Material type	Chemical compositions							Mechanical properties			
	Fe	C	Cu	Sn	Zn	Pb	others	Density g/cm ³	Oil %	Pressure stress kgf/mm ²	HB
SNF-11	<0.5	0.5~2.0	Remain	5~7	5~7	2~4	<1.5	6.4	≥18	>15	20~50
SNF-12	<0.5	0.5~2.0	Remain	5~7	5~7	2~4	<1.5	6.8	≥12	>20	30~60
SNF-21	<0.5	0.5~2.0	Remain	8~11	—	—	<1.0	6.0	≥25	>15	25~55
SNF-22	<0.5	0.5~2.0	Remain	8~11	—	—	<1.0	6.4	≥18	>20	35~65
SNF-31	Remain	—	18~22	—	—	—	<3	6.0	≥18	>30	30~60
SNF-32	Remain	—	18~22	—	—	—	<3	6.4	≥12	>35	40~70
SNF-41	Remain	<1.0	—	—	—	—	<3	6.0	≥18	>15	30~60
SNF-42	Remain	<1.0	—	—	—	—	<3	6.4	≥12	>20	40~70
SNF-51	Remain	0.25~0.6	70~90				<3	6.4	≥18	>30	30~60
SNF-52	Remain	0.25~0.6	50~70				<3	6.8	≥12	>25	40~70