



## SINTERED SELF LUBRICATING BUSH BEARING & ALLIED PRODUCTS



# ***OILITE INDUSTRIES***

SSI / NSIC Regd. Unit

*Manufacturer of Sintered Bush and Allied Products*

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# SINTERED SELF LUBRICATING BUSH BEARING

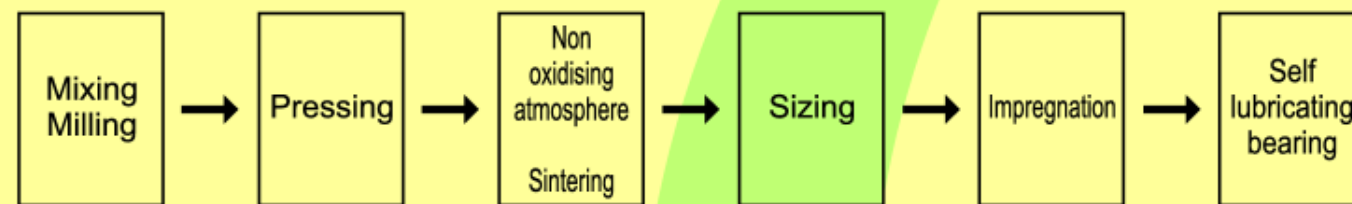
## INTRODUCTION

Oilite Industries produces the best quality ferrous & non-ferrous sintered components which fully confirm to our customers total requirements, at a competitive price. Sintered self lubricating bush, bearings & parts are manufactured by us using powder metallurgy process. It has a strong & rigid structure due to complete alloying of the metals during manufacture. The porosity is distributed throughout the body by way of inter connecting channels & reservoirs. This results in a self lubricating bearing, which provides automatic lubrication over a long periods without attention. No machining is necessary since all parts are supplied finished to very close tolerance. There is no need of oil holes, grooves or greasepoints neither any chance of oil leakage.

## PROCESS

Metal powders are consolidated into a shape under pressure. The powder metallurgy process has three basic stages : - mixing, pressing & sintering.

### Process of manufacture :



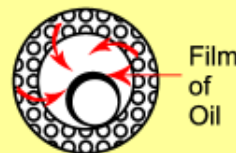
## APPLICATION

Sintered bush bearings & parts are used in Machine-Tools, Pumps, Fans, Sugar Mills, Textile and Jute Mills, Crane Manufacturers, Railways, Steel & Power Plants and various other important industries. These are fast substitute of conventional gun metal bronze and other sleeve bearings due to inherent advantages.

## WHY SELF LUBRICATING BUSH

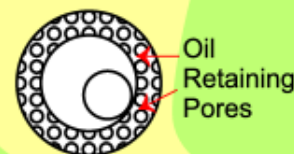
### At Rest :

Pores constituting 25% of the volume of the metal structure are impregnated with oil and retain this oil till needed.



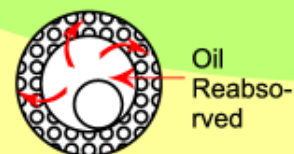
### In Rotation :

In operation oil comes to the surface of the shaft and the shaft or bush rotates virtually on a "cushion of oil".



### When Shaft or Bush Stops :

When the shaft or bush stops rotating, capillary action causes the pores to reabsorb the oil into the body of the bush till it is required again.



## ADVANTAGE

Sintered bearing bushes are having a lot of advantages such as :

1. "Built-in" lubrication once-installed, requires no lubrication and gives long life.
2. Elimination of oil grooves and holes.
3. Elimination of grease cups and lubricators.
4. Reduced wear and quiet performance.
5. Reduced oil consumption.
6. No oil leakage-contamination of manufactured articles is avoided.
7. Oil cushion-the lubricant in the pores is forced up to the bush bearing surface by increase in load.
8. Produces good surface finishes.
9. Precise tolerance accurately maintained.
10. Low noise level.
11. Facilitates manufacture of complex or unique shapes which would be impractical or impossible with other metal working process.

## QUALITY CONTROL & STANDARDS

Oilite Industries is committed to meeting and exceeding its customers expectations for the products & services it provides. We are undertaking manufacturing as per IS, ASTM, BS, DIN etc... to cater variable demands of various customers.

## STORAGE & LUBRICATION

Sintered bush bearings should be stored in closed non-absorbent containers and kept away from heat. It is essential to dip the bush bearings in recommended grade of warm oil before use, specially if they have been stored for a long time.

Oilite Industries is the pioneer manufacturer of the items as per customer's specification upto a range of 200 mm x 200 mm length and any odd and nonstandard requirements. We are also manufacturing sintered iron rings and pre-shortening inserts for draft gear.