

ABSTRACT

METHOD OF PRODUCING SINTERED BRONZE ALLOY POWDER

5 A method of producing sintered bronze alloy powder, including a provisional sintering step of sintering copper/tin mixed powder, which is prepared by mixing -200 mesh electrolytic copper powder and -350 mesh tin powder at a tin powder compounding ratio of 8 to 11 wt%, in a reducing atmosphere at 300°C to 600°C and thereafter pulverizing the same, and a main sintering step of sintering the provisionally sintered powder once again in a reducing atmosphere at 500°C to 700°C, wherein the sintered powder is subsequently pulverized and sieved. Provided is bronze alloy powder having a fine particle size which is suitable for the manufacture of compact oil-impregnated sintered bearings. Additionally provided is bronze alloy powder with fluidity that will not deteriorate the productivity even when fine raw material powder is used.

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Fig. 1