

IRON/COPPER COMPOSITE POWDER FOR POWDER METALLURGY AND PROCESS FOR PRODUCING THE SAME

ABSTRACT

Provided is iron/copper composite powder for powder metallurgy having copper-coated iron powder as its primary component; wherein, in the copper-coated iron powder or in a mixed powder of copper-coated iron powder and electrolytic copper powder, the copper content is 45 to 70wt%, the apparent density is 2.2g/cm³ or more, and the flow rate is 25s/50g or less. Additionally provided is a process for producing iron/copper composite powder for powder metallurgy having copper-coated iron powder as its primary component, wherein iron powder is plated with copper, and the copper-coated iron powder alone or the mixed powder of copper-coated iron powder and electrolytic copper powder, of which the copper content is 45 to 70wt%, is sintered and pulverized. Thus, in producing powder-metallurgical raw powder having copper-coated iron as its primary component to be used in oil-impregnated sintered bearings and the like, the present invention is able to provide powder-metallurgical composite powder having copper-coated iron powder as its primary component and the production method thereof capable of improving in the fluidity and apparent density of the sintered raw powder, and in sintering characteristics such as the radial crushing strength, and additionally reducing the cost.