

[Designation of Document] Abstract

Provided are a silver-white copper alloy which has superior mechanical properties such as hot workability, cold workability, or press property, color fastness, bactericidal and antibacterial properties, and Ni allergy resistance; and a method of producing such a silver-white copper alloy. The silver-white copper alloy includes 51.0 mass% to 58.0 mass% of Cu; 9.0 mass% to 12.5 mass% of Ni; 0.0003 mass% to 0.010 mass% of C; 0.0005 mass% to 0.030 mass% of Pb; and the balance of Zn and inevitable impurities, in which a relationship of $65.5 \leq [\text{Cu}] + 1.2 \times [\text{Ni}] \leq 70.0$ is satisfied between a content of Cu [Cu] (mass%) and a content of Ni [Ni] (mass%). In a metal structure thereof, an area ratio of β phases dispersed in an α -phase matrix is 0% to 0.9%.

Figure 3