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Sintering material on the basis of silver-tin oxide for electrical contacts and process for its manufacture

Abstract:

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An electrical contact material for switching rated currents between 20 and 100 Ampere having improved operational life consists of 3.2 to 19.9 wt-% tin oxide and 0.05 to 0.4 wt-%, in each case, of indium oxide and bismuth oxide, the remainder being silver. In the course of the manufacture of the material by powder metallurgy more than 60 wt-% of the tin oxide should exhibit a particle size of more than 1 μm .

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