

论文摘要

中国有色金属学报

ZHONGGUO YOUSEJINSHUXUEBAO XUEBAO

第6卷 第2期 (总第19期) 1996年6月

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文章编号: (1996)02-123-4

粉末冶金银—氧化铜触头材料^①

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摘要: 采用粉末冶金工艺研制成Ag-CuO(10)触头材料。结果表明: 产品密度达9.62~9.7 g/cm³, 硬度HB750~860, 电阻率2.25~2.39μΩ·cm, 抗弯强度370~420MPa; 200万次机械寿命和7周期交变湿热试验均能满足电力机车的使用要求。此外, 在低压电器CZ5接触器上可代替Ag-CdO₍₁₅₎触头。

关键字: 粉末冶金 银-氧化铜触头 性能

POWDER-METALLURGICAL Ag-CuO CONTACT MATERIAL

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Abstract: The contact material of Ag-CuO prepared by P/M was investigated. The results showed that its density is 9.62~9.7 g/cm³, hardness HB 750~860 MPa, electric resistivity 2.25~2.39μΩ·cm, TRS 370~420 MPa; and it can sustain 2 000 000 times of machine life-span tests and 7 cycles of thermohygro-metric exchange tests, verifying that it meets the electric locomotive s demands; besides, Ag-CuO10 may be used instead of AgCdO15 contact on the contactor of low pressure electrical equipment.

Key words: powder metallurgy Ag-CuO contact property

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