ON THE WELDING BEHAVIOR OF AG-NI COMPOSITES FOR ELECTRICAL CONTACT MATERIALS

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Abstract: The paper studies the possibility of fixing the composite Ag-Ni material on brass conducting supports for electric contacts. The experiments and tests made with different Ag-Ni compositions in wire form with a diameter of 2 mm have shown a good welding behavior on the supports of this material. The established welding regimes and the breakdown test have confirmed the applicability of the procedure. The major factor of influence upon the optimum parameters for welding as well as of the mechanical strength of the welding was nickel content (10-30 wt. % Ni). The values at ultimate strength were net superior to the wire of technical silver, usually used to manufacture some types of contacts to similar the those of Ag-Ni.

References:

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