

ALLOYS WITH PREASSIGNED ELECTRIC CONDUCTIVITY



Coins of Ukraine



Areas of Application

For manufacture of circulating coins and coins of higher denominations

Specification

Electric conductivity ranges $17 \div 19\%$ IACS with an error up to $\pm 0.4\%$ IACS; hardness of annealed alloys (HRC < 90) enables reproducing fine details of design without loss of wear resistance of coining instruments; hardness of tempered alloys (HRC 130–150) enables cutting burr-free blanks from metal strip and imparts a proper wear resistance to minted coins; manufacturable at domestic plants



Trial tokens made of LAOMn82-1-1 alloy

Advantages

The cost is 20% lower as compared with the EU coins; a high wear resistance matching that of the best European coins ensures a 20-year circulation life; a high corrosion resistance in different media; no growth of bacteria and fungi; nontoxicity; does not change the color while stored and circulating; preassigned electric conductivity

Stage of Development. Suggestions for Commercialization

IRL3, TRL2
Token pilot batch and coinage technique

IPR Protection

IPR2

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