

ALLOY Zr1Nb FOR ATOMIC ENERGY IN UKRAINE

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Zr1Nb alloy based on triple charge was received by vacuum arc melting method. Chemical composition of the alloy was determined. Microstructure, structure itself, mechanical and corrosion properties were studied. It was shown that Zr1Nb alloy has the homogeneous structure in the height and ingot cross-section, has the uniform distribution of the impurities and ingot volume doping elements, which are confirmed by the firmness measurements and microfirmness. Mechanical and corrosion properties of Zr1Nb are the same as in E-110 alloy.