MAKİNG OF POWDER METALLİC OSMİUM

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As the practice known now methods of regeneration of a metallical osmium from its bonds by Hydrogenium demonstrates do not allow to receive clean enough metal. During regeneration of a metallical osmium from bonds, there is its offset and spreading on walls of reactors, in which one there is a regeneration. The analysis of existing procedures demonstrates, that the regeneration in a current only of Hydrogenium in the maiden moment results in formation of a great many of water and offset with it unredused intermediates.

The purpose of work - study of possibility of application of an admixture of gases for regeneration of a metallical osmium and enriching of technological arguments. The different gas mixtures, and also methods of their clearing are tested. The temperature schedule of regeneration is optimized.

The technology of regeneration of an osmium by a helium-hydrogen admixture of variable makes up wastes. It is retrieved by us that the regeneration of dioxide of dihydrate of an osmium starts already at temperature 132 °C. Optimum make up of a helium-hydrogen admixture in a kickoff of regeneration is 95:5 (on volume). The regeneration of an osmium from its bonds in the temperature schedule, retrieved by us, and in a current of a helium - hydrogen admixture of adjustable make up results in obtaining a compact dust of a metallical osmium absolute without lost and without dust-blowing of unreduced osmium. Purity of a recovered osmium - .99,99 per cent. The definition of purity of metal is held in Frezenius Institute on admixings of 60 elements.