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POSSIBILITIES OF INCREASING THE EFFICIENCY OF THE TECHNOLOGY OF HYDROMETALLURGICAL PROCESSING OF LEAD CONCENTRATES

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ABSTRACT

The most developed hydrometallurgical technological schemes for the production of lead and its compounds, based on the use of sulfuric and hydrochloric acids, are considered. Their main disadvantages are shown, which prevent their introduction into practice, which is associated, first of all, with the low solubility of lead sulfate and chloride. The prospects of using hydrometallurgical schemes with the use of nitric acid for processing lead-containing raw materials to obtain lead and its compounds have been substantiated. Metal recovery reaches 96-99% with almost complete reagent regeneration. The tests carried out demonstrate greater environmental friendliness compared to pyrometallurgical.