



The Air Pollution from the Port-Piri Furnace's Gases

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Abstract. The paper has as a studying object the issue of effective management of gasses' heating and dusts in reductive melting process in lead (Pb) metallurgy. It also analyses the issue related to the usage and recycling of dusts and gasses in all pyro-metallurgical processes of technical lead production. The paper contains the analysis of technological process of separation of humidity, gasses, and dusts of valuable remainders in "Trepça" plant. Paper has the results of theoretical-experimental studying, analytical and graphical of gasses thermal balance depending on height and composition of load, and the coke quantity on load for reductive melt in "Water-Jacket" furnaces. With thermal balance, having into consideration all parameters of heat in entry and exit depending on aforementioned factors we aimed to optimize the parameters of the process, keeping the attention to the minimization of energy consumption, and the overall influence on environment.

Keywords: *load, coke, heat, humidity, dusts, gasses, environment.*

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