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## RED MUD AND WASTE BASE: RAW MATERIALS FOR COAGULANT PRODUCTION

Višnja Oreščanin, Karlo Nad, Vladivoj Valkovic, Nenad Mikulic &amp; Olivio Meštrovic

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## Abstract

Proposal for coagulant production using red mud and waste base as raw material, by-products of abandoned alumina factory near Obrovac in Croatia, is described. Basic physico-chemical characteristics of red mud and waste base were also given. Elemental concentrations of red mud, waste base and wastewaters before and after treatment were measured using tube excited EDXRF method. Coagulant production consist of partial dissolution of red mud with diluted sulphuric acid (30% wt), separation of liquid from residual red mud by centrifugation or filtration through the filter press, and neutralisation of acid red mud ( $\text{pH} = 0$ ) with the waste base to  $\text{pH} = 8$ . This process of red mud and waste base to produce coagulant is suitable for environmental protection. For example, wastewaters were used for the production of red mud), and produced five cycles.

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