

EFFECT OF ALUMINIUM SULPHATE AGING ON COAGULATION PROCESS FOR THE PRUT RIVER WATER TREATMENT

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Abstract. Aluminium sulphate is one of the most widely used coagulants for water treatment and has been proven to be an effective coagulant for the removal of certain contaminants, turbidity and colour. Aluminium sulphate used during the coagulation process is hydrolyzed in the water, forming polynuclear complexes. *Aged* aluminium solutions show different coagulation behaviour than that of freshly prepared solutions. The aim of presented research was to highlight the influence of the *aging* of aluminium sulphate solution on the turbidity removal from water. Obtained results reveal that using of optimal *aging* solution of coagulant improves the coagulation process.

Keywords: coagulation, *Jar-test*, aluminium sulphate, *aging*.

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