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The invention relates to processes for obtaining mixed coagulants from industrial waste, which may be used for purification of highly polluted waste waters.

The claimed process consists in that the mixed coagulant is obtained by mixing the solution of black sulphuric acid, used for acid etching of the steel, containing 120...150 g/L of iron ions, and of the sediment obtained at the potable water treatment, containing aluminum hydroxide.

For oxidation of bivalent iron ions into trivalent iron ions the obtained coagulant at a pH=5,5...7,2 is treated with a stoichiometric quantity of sodium hypochlorite solution, obtained by electrolysis of the 3...5% sodium chloride solution, with subsequent concentration of the obtained coagulant up to 80...85% of the initial volume.

Claims: 2