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Comparison of the effectiveness of new couples in the treatment of effluents from hot-dip galvanizing

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Abstract : The treatment of industrial effluents by the coagulation/flocculation process is widely used internationally. This treatment makes it possible to reduce the pollution parameters (MES, COD, BOD5, turbidity, conductivity, pH, etc.). The effluent treatment tests from Galvacier various hot-dip galvanization stages by the three pairs used, have shown that these pairs used would make it possible to reduce the pollution parameters but the best treatment result is obtained by the application couple lime/chitosan (s) at a dose of 0.2g / l with a reduction of 97.01% of suspended solids; 98.83% of the turbidity, 79.92% of the Conductivity (µs/cm), 99.19% of the chemical oxygen demand and 99.14% of the biochemical oxygen demand.

Key words : new couples, effluents, , hot-dip galvanizing.

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