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Electrochemical treatment of chemical mechanical polishing wastewater: removal of fluoride — sludge characteristics — operating cost

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ABSTRACT:

The aim of this paper is to propose an efficient and low-cost treatment of chemical mechanical polishing wastewater process based on electrocoagulation with iron bipolar electrodes. The performance of a pilot scale electrochemical reactor equipped with iron bipolar electrodes and an anode active area surface of about 170 cm² was studied. In addition, sludge settling after electrocoagulation were characterized. The pilot study yield promising results, suggesting that further in-depth development study is worth to be considered in a future work.