

Augmentation with Ozone Assisted Electrochemical Degradation of Distillery Spent Wash for the Removal of Color and Chemical Oxygen Demand

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Abstract

Distillery spent wash (DSW) is an extremely cumbersome and recalcitrant effluent. The present technologies are implemented for the industry to remove certain pollutants like chemical oxygen demand and color, to safe and acceptable limits for final disposal into surface water or on land and to meet the requirements of regulatory standards. In view of this above condition various methods such as Electrochemical (EC) and ozone-assisted EC processes are implemented. Pair of aluminum (Al–Al) electrodes are more effective than other electrodes such as iron (Fe), copper (Cu), and graphite (Gr). Pair of Al–Al electrodes eliminate the chemical oxygen demand by 54.45% and color by 52.35%. Punched Al–Al electrodes minimize the chemical oxygen demand by 67.78% and color by 50.18% respectively. Continuous

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