GW Jet Aerator for Highly Corrosive Wastewaters

The client of this project is a pharmaceutical and chemical company that produces p-aminophenol. The company's production wastewater has a salinity of 18% (mainly chloride) and is treated with ozone at a concentration of 150mg/L and a content of 10%, with an ozone air pressure of 0.1MPa. Both chloride and ozone are corrosive.

As chlorine ions and ozone are corrosive, aeration equipment to be able to long-term, stable, normal operation, must have the corrosive properties of chlorine ions and ozone. Stainless steel ozone corrosion resistance is better, 304 stainless steel can be used in low concentration ozone environment, 316L stainless steel can be used in high concentration ozone environment. Chlorine ions can reduce the 316L stainless steel material surface passivation film formation and accelerate the destruction of the passivation film, the formation of pitting corrosion, and then promote local corrosion, damage to the stainless steel equipment long-term, stable, normal operation of the function. Therefore, the aeration equipment to have a high concentration of chloride ions corrosion resistance, you need to use more advanced materials, such as Hastelloy, titanium alloy.

The higher the material requirements of the equipment, the higher the material cost and processing technology requirements, resulting in higher equipment prices, which is not conducive to the promotion and use of equipment. After many aspects of evidence, we solve this problem by spraying anti-corrosion coating on the inside of the equipment.

phone:028-85130135 E-mail: jane1984@cd-greenwater.com

The coating we use is a copolymer of ethylene and trifluoroethylene, which has thermal stability, chemical corrosion resistance (resistant to acids, most strong bases, strong oxidizers, and other chemicals; excellent stability to some inorganic salts, including water and salt solutions), and low permeability properties.

GW lined anti-corrosion coating aeration equipment is our re-design drawings processing completed, in the case of ensuring that the equipment flow channel is unchanged, the equipment internal uniform spray anti-corrosion coating. The unchanged flow path ensures that the performance of the equipment does not change, and the vinyl and trifluoroethylene co-coating ensures that the equipment is not corroded by corrosive substances, thus solving the problem.

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email:lzx@cd-greenwater.com