皮革廢水鐵離子對化學混凝污泥脫水之影響

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摘 要

中文摘要　本研究以調整pH，在聚氯化鋁的化學混凝中加入氯化鐵，探討濕藍皮鞣革廢水中懸浮固體、COD之去除機制；並就混凝所生成的鐵、鋁污泥進行沈降性與脫水性試驗。本研究可知：(1)不加混凝劑，單獨調整pH至極端值(3以下，11以上)時，對SS與COD均有良好的去除效果；(2)氯化鐵30mg/l以下比聚氯化鋁30mg/l以下有較高的SS與COD去除效率；(3)聚氯化鋁與氯化鐵的雙重混凝中，SS或COD去除率均較單加PAC高；(4)二次混凝有助於COD的去除； (5)在PAC混凝中，添加氯化鐵，因鐵膠羽密度較大，可與鋁膠羽形成鐵-鋁膠羽，增加膠羽的沈降速度；(6)鐵污泥的脫水效率比鋁污泥高，添加氯化鐵的鐵-鋁污泥較單純的鋁污泥易於脫水。 關鍵字：皮革廢水，化學混凝，雙重混凝，污泥脫水，氯化鐵。

關鍵詞 : 皮革廢水 ; 化學混凝 ; 雙重混凝 ; 污泥脫水 ; 氯化鐵

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