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APPLICATION OF SYNTHETIC CHEMICAL COMPOUNDS IN PETROLEUM SLUDGE TREATMENT

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Abstract

The sludge treatment processes represent a priority when we refer to the municipal wastewater treatment, but can implicate very complex studies and applications if we consider the industrial wastewater recovery and treatment processes. Even if the industrial sludges are seen as wastes, they can represent an important resource if are properly managed in the storage, treatment and recovery processes. This paper aims to identify some methods to optimize the coagulation and flocculation process used in petroleum slurry treatment. The application was carried out in real conditions of operation, aiming to establish the optimal concentrations for the chemical compounds used: the dispersant Drimax 1235, coagulant Magnafloc LT 32 and flocculant Magnafloc 120 L. The optimal concentration was established by analyzing the efficiency of the liquid and solid phase separation.

Key words: coagulant, industrial sludge treatment, organic flocculant

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