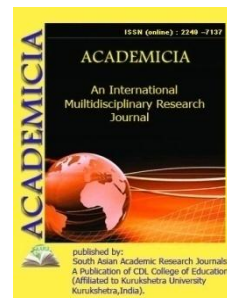




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## THE PROCESS OF EVAPORATION OF SODIUM SULFATE SOLUTION BY LEACHING NATURAL RAW MATERIALS

**Djuraeva G.X\***

\*Associate Professor of the Department of Technological Machines and Equipment,  
 Candidate of Technical Sciences, Faculty of oil and gas,  
 Karshi engineering and economical Institute,  
 UZBEKISTAN

### ABSTRACT

*A specific feature of the chemical composition of the natural mirabilite of the Tumryuk deposit is that the average content of impurity salts of halite, gypsum and epsomite in it is not considered very high. The quality of the product in terms of the content of the main substance and impurity of sodium chloride according to GOST (Government standart) 6318 corresponds to the first grade, and in terms of the amount of impurity of ions  $Mg^{(2+)}$ - to the second grade. The highest demands on the quality of sodium sulfate are imposed by the synthetic detergent industry. This is due to the fact that the micro components introduced into them, which dramatically improve the quality of synthetic detergents, are very sensitive to impurities of some divalent metals, in particular iron, calcium, and zinc.*

**KEYWORDS:** *Sulfate, Dramatically, Impurity, Gypsum*

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