

## Micro-Filtration with an Inorganic Membrane

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**Abstract :** The aim of this study is to use membrane technique for filtration of a coloring solution. the preparation of the micro-filtration membranes is based on a natural clay powder with a low cost, deposited on macro-porous ceramic supports. The micro-filtration membrane provided a very large permeation flow. Indeed, the filtration effectiveness of membrane was proved by the total discoloration of bromothymol blue solution with initial concentration of 10-3 mg/L after the first minutes.

**Keywords :** the inorganic membrane, micro-filtration, coloring solution, natural clay powder

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