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DETERMINATION OF AEROSOLS POLLUTANTS ON MEMBRANES. 1. MEMBRANES PREPARATION AND CHARACTERIZATION

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Abstract

The aim of this work is to produce polysulfone and polyetheretherketone membrane filters with different compositions used in determining pollutants levels (dust and lead aerosol) of gaseous effluents. The studies include composite membranes polysulfone/nanospecies, by comparison with conventional membranes, nucleopore. The prepared membranes were characterized by fluid permeability method (determining the flow of pure water passing through membrane) tested by the filtration of a protein - bovine serum albumin (BSA), and their structure was studied with scanning electron microscopy.

Key words: aerosols determination, membrane characterization, phase inversion, polyetheretherketone, polysulfone membranes

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