MEMBRANE CARD AND METHOD FOR THE PRODUCTION AND USE THEREOF

Abstract

The invention relates to method for producing track-etched membranes, membrane cards, membrane stacks, separating elements, devices and plants, to the use thereof for separating particles from liquid and gas media and to methods for determining a maximum diameter of the membrane pores. The inventive method for producing a track-etched membrane consists in exposing a polymer film to a heavy ion attack for forming a determined track density therein, in etching pores in the thus obtainable film by an etching solution for ensuring a pose density corresponding to the track density and in laminating the thus obtainable porous track-etched membrane on a porous substrate by using an adhesive material for producing a membrane card. Membrane stacks and a turbuliser are helically wound about a collector tube for collecting a treated liquid (gas) medium in such a way that a separating device is formed. Said separating device in integrated into a separating plant which also comprises a treated liquid (gas) medium collector, pipe lines for initial non-treated and treated liquid (gas) media, pressure sensors connected to the pipe lines for non-treated and treated liquid (gas) media for switching the separating plant into a back-flushing mode, when an important amount of particles extracted from the initial liquid (gas) medium is collected on the membrane.

No suitable figure