

Product information

Porous glass membranes



boraident® glass membranes are controlled pore glasses with flexible geometry, variable membran thickness and different pore sizes.

Porous glass is prepared through extraction processes from phase separated borosilicate glasses, so called VYCOR glass. The preparation process is challenging but the material can be produced in high quality with pore sizes ranging from 2 nm up to any desired value.

Application

Because of their high mechanical, thermal and chemical stability, variable manufacturing of pore sizes, different shapes and sizes modifications, a wide array of applications are possible.

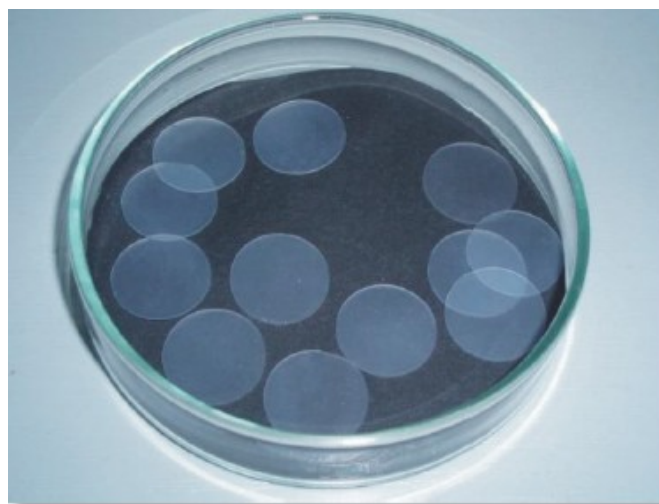
Porous glasses are ideal for **material separation**; this is why they are widely in all fields of medicine (e.g. DNA cleaning), pharmacy research, biotechnology (e.g. immobilisation of enzymes or microorganisms, hyperfiltration of sea water), chemistry (e.g. matrices in supramolecular chemistry), and sensor technology.

Apart from the application as separation material, porous glass is to use as **catalyst carriers** and **membrane reactors**. Membrane reactors are able to increase the number of reactions while dissipating a reaction product via selective membrane(s).

Technical Specification

boraident glass membranes meet the following specification:

- **Shape and Size:** circular membranes up to 28 mm diameter
Rectangular membranes up to 28 mm edge length
- **Membran thickness:** 0,2 to 1 mm (depend. on pore size)
- **Pore sizes:** 2 to 200 nm
- **Properties:** high biological resistance
high chemical resistance
high thermal resistance
high mechanical stability.



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