



VOC AND HUMIDITY ADSORBER

Improvement of the manufacturing of zeolites for molecular decontamination

Technological benefits

Efficiency

High adsorption efficiency.
 High quality adsorption.
 Selectivity to adsorbed components.
 Products with high added value for certain families of molecules.

Adaptability & modularity

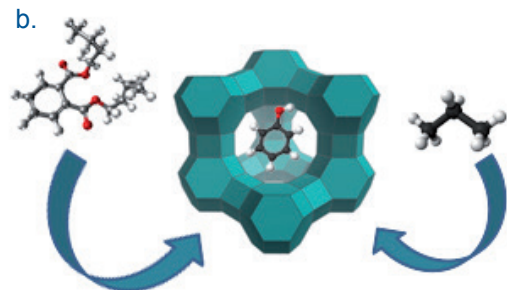
Adaptable formulation.
 Support adaptable - modular formatting.
 Possibility to reuse existing surfaces or supports.
 Regenerable - (economic)
 Application to vacuum instrumentation.

Invention overview

The invention relates to the use of zeolites for molecular decontamination and in particular to the use of zeolites modified by cation exchange or by modifying the Si / Al ratio as molecular traps.
 It allows molecular trapping for a wide variety of molecule families.
 The shaping may be a coating on support according to the chosen configuration.

Potential applications

Complex environments, improved air quality, air purification, gas separation.



a. Zeolites in the form of pellets.
 b. Molecules adsorbing themselves on the zeolite (faujasite type).

Commercial benefits

Economic

Faster manufacturing
 Available for sale.
 Regenerable / reusable.
 Improved performance, increased efficiency.
 Compact size and light weight.
 Functionalization of existing surfaces.

Evolutive

Modular and adaptable to different supports.
 Allows to upgrade the functionalities of the system with the technological advances.

TRL : 9

Invention available under license.

For further information