

// PROCESS FOR THE PRODUCTION OF COMPONENTS WITH A PRECISELY DEFINED POROSITY

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BACKGROUND

Porous components or components with a defined porosity are used, among other things, in separation processes and for functional testing and calibration of leak detectors for leak testing. In separation processes, a defined pore size is important for excluding the size of the mixture of substances to be separated. In connection with leak detectors, a defined gas permeability, often expressed as the leakage rate, is the decisive property.

PROBLEM

Simple production of small leaks, which can be created as a component as well as introduced onto existing components. These can, for example, serve as reference leaks for leak detectors or for ultra-fine filtering, etc.

SOLUTION

Production of nano / microporous layers using cold gas spraying.

ADVANTAGES

- Very easy to apply
- Precisely defined porosity
- Cheaper than established processes

SCOPE OF APPLICATION

Calibration leaks, filtering, all kinds of separation processes, especially useful in the context of very volatile substances like hydrogen.



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DEVELOPMENT STATUS

Prototype

CATEGORIES

//Manufacturing technology //Engineering //Process engineering //Physical sciences //Sensor systems technology and measuring instruments

SERVICE

If you have questions about the technology
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