



#3604

Evaluating of adsorbents

EVALUATING THE PERFORMANCE OF SOLID GAS
ADSORBENTS

DESCRIPTION

We perform the evaluation of the adsorption capacity, breakthrough curve, mass transfer zone, and kinetics of adsorption/desorption cycles in an experimental fixed bed system. Additionally, the structural characterization of the solids is determined through N₂ and CO₂ sorption, which allows for the measurement of the pore size distribution and surface area of the adsorbent.

AVAILABLE EQUIPMENT

- N₂ and CO₂ Sorptometer (AutosorbiQ, Quantachrome)
- Experimental Fixed-Bed Adsorption System (mass flow meters, temperature controllers, and gas sensors with data acquisition)

ADVANTAGES

- Interpretation of results
- Theoretical adjustment of parameters for validation
- Instrumental analysis conducted by qualified personnel

APPLICATIONS

Activated carbon, molecular sieves.

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