

Mixed adsorption

Référence : ADM/2000



Study of the gas-adsorption by a solid

Study of the liquid adsorption by a solid

GENERAL SPECIFICATIONS

- 20 L polyethylene tank.
- SS gear pump.
- Two glass columns , packed with activated carbon:

Column 1, packing 300g.

Column 2, packing 170g.

- Graduated glass vessel for gas titration and neutralization 3L packed with SS Pall rings.

Instrumentation

- Water flowmeter.
- Air flowmeter.
- CO₂ flowmeter.
- 2 temperature probes Pt100Ω.

- 1 digital thermometer.
- 3 manometers.

Dim : 200 x 75 x 220 cm – 170 kg
SS tubular framework 40 x 40mm

Categories: Adsorption Chemical processing Educational Engineering

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DESCRIPTION

Study of the gas-solid adsorption on two columns of different diameters

Effect of column's diameter

Qualitative and quantitative study of the adsorption

Influence of concentration and flow rate parameters on the liquid phase

Influence of liquid and gas flow rates

Influence of the amount and the type of absorbent

Study of the adsorption / desorption cycle (option)