EQUIPMENT CARD

PLAPIQUI



5602

Surface area analyzer (Quantachrome, NOVA 1200e)

DESCRIPTION

Automatic surface area and pore size analyzer based on gas adsorption, with a single analysis station. The 1200e version accepts adsorptive gases other than nitrogen, which enables micropore characterization.

MAIN FEATURES

- Analysis stations: 1; built-in degassing ports: 2
- "Any Gas" capability: accepts N_2, Ar, CO_2, H_2, light hydrocarbons and other non-corrosive gases
- Surface area range: from 0.01 m^2/g, with no known upper limit
- Pore size range: 0.35 to more than 400 nm
- Minimum detectable pore volume: 2.2×10^{-6} mL/g (liquid)
- Degassing: by vacuum or flow, from ambient temperature to 450 °C in 1 °C steps (350 °C with standard mantles)
- Pressure transducer: accuracy ±0.1 % of span; resolution 2×10^{-5} in P/P_0
- NOVA technology: helium-free analysis (NO Void Analysis), or classical helium void volume mode
- Data: up to 100 adsorption and 100 desorption points; NOVAWin software with BET, Langmuir, t-plot, BJH, DR/DA, MP and DFT

MAIN APPLICATIONS

- BET specific surface area determination of catalysts and supports
- Characterization of activated carbons and of their micropore development
- Evaluation of adsorbents for water treatment and gas separation
- Pore size distribution of silicas, clays and mesoporous materials
- Textural quality control in the production of porous solids

ASSOCIATED TECHNOLOGY AND SERVICES

1601 - 3601 - 3604

CONTACT US

Office of Technology Transfer

ott@plapiqui.edu.ar
plapiqui.edu.ar/ott
+54 291 4037200 - Int 217/214
+54 9 291 4261644

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