

GUTMAM

- To increase the number of high-quality publications and outputs by providing our university's researchers with an efficient and well-supported environment for conducting scientific studies under optimal conditions,
- To contribute to scientific and technological advancements by establishing sustainable and scalable infrastructure that enables cutting-edge research, serving the needs of universities, the public sector, and private industry,
- To support regional and national economic development by offering services to various industrial and private organizations, particularly in fields prioritized by national development plans—within the framework of university-industry collaboration.

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Please scan the QR code for further details.



BET

Surface Area and Porosity Analyzer

Micromeritics III Flex

For Analysis/Proforma Invoice Requests

Visit us on the Web:



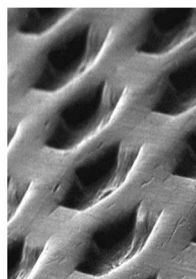
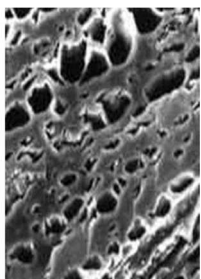
MER LAB

<https://merlab.gazi.edu.tr/>

Gazi Üniversitesi Temel ve Mühendislik Bilimleri Merkez Laboratuvarı Uygulama ve Araştırma Merkezi (GÜTMAM)

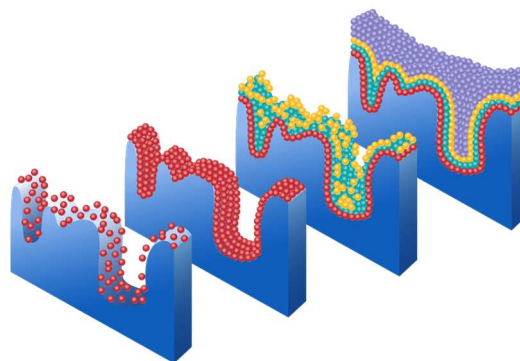
Operating Principle

The device calculates the surface area and pore sizes of the material by creating gas adsorption isotherms at low temperatures (e.g., in a liquid nitrogen environment). The physical properties of the material are determined with the help of theoretical models such as BET and DFT.



Field of Applications

- Materials Science and Nanotechnology
- Catalyst Development
- Pharmaceutical and Food Industry
- Carbon Materials (Activated Carbon, Graphene, etc.)
- Ceramic and Construction Materials



Analyses Performed with the Device

- BET surface area calculation
- Pore volume and size distribution (BJH, DFT, NLDFT)
- Micropore and mesopore analysis
- Gas adsorption-desorption isotherms
- Catalyst characterization (optional)

Technical Specifications

- 1, 2, or 3 analysis ports
- High-precision manometers (1, 10, 1000 torr)
- Ultra-high vacuum for micropore analysis (10^{-9} torr)
- Wide range of gas options (N_2 , Ar, CO_2 , etc.)
- Advanced data analysis with MicroActive™ software

Why 3Flex?

- High analysis speed
- Simultaneous processing capacity for 3 samples
- Superior performance in micropore analysis
- High resolution and repeatability
- Extensive data analysis and reporting capabilities