

for measuring the surface texture properties of materials  
using the low-temperature inert gas adsorption method



- dynamic method for determining surface texture properties
- the measurement process is visualized in real time
- the BET measuring method complies with the international ASTM and ISO standards
- standards scaling designed to align with state standard reference samples of BET surface and pre-defined gas volume



### Technical specifications:

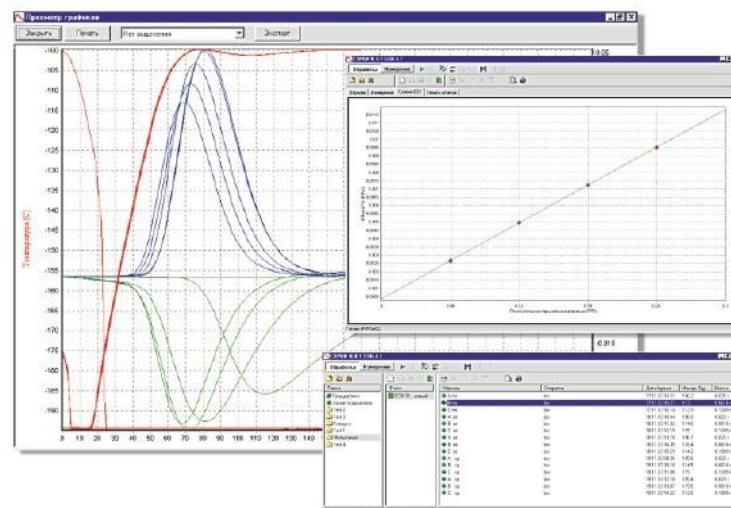
BET surface measurement range, m <sup>2</sup> /g	0,1 ÷ 2000
Adsorbate gas	extra pure grade gaseous nitrogen (GOST 9293-74)
Carrier gas	extra pure grade gaseous helium, 6.0 grade (TU0271-001-45905715-02)
Partial pressure range of the adsorbate gas	0.02 ÷ 0.98 P/P <sub>0</sub>
Admissible relative error limit when measuring BET surface, %	± 6
Reproducibility of at least, %	± 0,5
Pore volume measurement range, ml/g	0,005
Operating mode setting time, min	40
Capsule's operating volume, ml	1
Dimensions, mm	310 x 285 x 380
Net / gross weight, kg	10/12
Electrically powered from a single-phase alternating current source, V/Hz	220 / 50
Power consumption, W	80

## Control

The software allows for the adsorption/desorption process to be controlled automatically and the measuring process to be displayed in real time.

## Measurement

Surface texture properties measurement comprises several adsorption/desorption cycles and is carried out automatically.

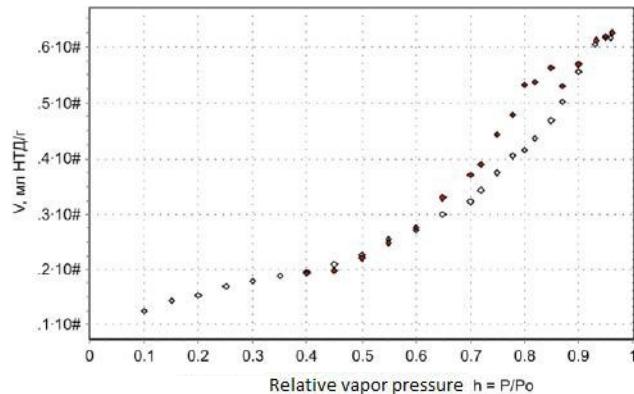


## Standard package contents

- Sorbi® - MS
- SorbiPrep® sample preparation station
- State standard reference BET surface samples
- Gas pipeline connection kit

## Accessories

- Precision balance
- Moisture content analyzer
- Computer



Sorbi®- MS is used as a means of measuring the surface texture properties of particulate and porous materials during their production and also for research purposes.

Measuring surface – using the multi-point BET method, outer specific surface – using the STSA method, total volume of pores - using the BJH method.

Pore size distribution data is plotted from a complete isotherm using the BJH method.

Sorbi®- MS is capable of measuring ultrafine powders with particle sizes starting from 10 nm.

## Area of application:

- Materials science research
- Chemical and mining processing industries
- The production of catalysts, sorbents, ceramics, composites, construction and fire resistant materials