SORBTOMETR INSTRUMENT

Description
SORBTOMETR is an instrument of original design for specific surface measurements designed jointly with the Technological Institute of Applied Microelectronics, Siberian Branch of the Russian Academy of Sciences. The instrument allows multiple automated measurements with varied duration of the adsorption stage until obtaining results of the required accuracy.

Technical specifications
- Number of adsorbers in the instrument [pieces]: 2
- Range of measured specific surface [m²/g]: 0.5 - 600
- Relative error [%]: in the express mode ≤10
  in the precise measurement mode ≤6

Technical appraisal and economic benefits
- automated preparation and proportioning of helium-argon mixtures;
- ultrastable detector in terms of thermal conductivity;
- automation of the adsorption-desorption cycle;
- the absence of mechanical valves in the gas circuit of the instrument;
- the instrument is supplied with state reference standards of specific surface areas for rapid and reliable check and calibration.

Application areas
Specific surface measurements for dispersed and porous materials, adsorbents, catalysts, and coloring agents using the method of thermal desorption of argon according to State Standard GOST 23401-90.

Development stage
Small-batch production was launched (Novosibirsk).
The instrument has passed state testing and is included in the State Register of Measuring Instruments (RU.E.060.A certificate).
**Patent situation**
A patent was granted in the Russian Federation (1994).

**Commercial offers**
Instrument supply.

**Estimated cost**
Price is to be negotiated.

**Contacts**
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