MICROTRAC

part of VERDER scientific

From Material Evaluation (Specific Surface Area and Pore Size Distribution) to Gas and Vapor Separation Performance Evaluation!

With BELSORP-max II, it is possible to evaluate the specific surface area and pore size distribution of various functional materials, as well as the adsorption amount and adsorption rate of various gases and vapors. A new lineup of high-temperature vapor adsorption measurement and high-pressure gas adsorption measurement specifications have now been added to BELSORP-max II, enabling not only material characterization but also gas and vapor adsorption measurements at high temperatures and high pressures.

High Accuracy Gas / Vapor Adsorption Amount Measurement Instrument BELSORP[®]-maxII

- Measurement range: Specific surface area = $0.01 \text{ m}^2/\text{g}$ or more (N₂), $0.0005 \text{ m}^2/\text{g}$ or more (Kr) Pore size distribution = 0.35 to 500 nm (diameter)
- •Achieves even higher throughput evaluations with simultaneous measurement of three specimens at extremely low pressure and a maximum of four specimens.
- Significantly reduced measurement time (valve-activated control and GDO).
 Enables high-precision measurement with low sample volume by way of
- our Advanced Free Space Measurement method (AFSM™).
- Fully automatic measurement (optional) is possible from pretreatment to adsorption isotherm measurement.

Specifications of High Temperature Vapor Adsorption Amount Measurement BELSORP[®]-maxII-HV

•The functions of BELSORP-max II enable evaluation of gas and vapor (water vapors and VOC) adsorption up to an adsorption temperature of 70° C (depending on the adsorbate).

• Dedicated analysis software BELMaster Ver. 7 enables the evaluation of not only BET and pore size distribution but also adsorption rates. Applications: Cement, concrete, building materials, desiccant air-conditioning, low-temperature exhaust heat utilization, batteries

Specifications of High Pressure Gas Adsorption Amount Measurement

BELSORP[®]-maxII-HP

• The functions of BELSORP-max I enable the adsorption measurement of high pressure gas (up to a maximum of 1 MPa) up to an adsorption temperature of 70° C.

• Dedicated analysis software BELMaster Ver. 7 enables the evaluation of not only BET and pore size distribution but also adsorption rates. Applications: CO₂ reduction, energy storage (CH₄, MCH, H₂), and air separation, etc.

		BELSORP-maxI	BELSORP-maxII-HV	BELSORP-maxII-HP
Pressure gauge	1MPa	_	_	1 unit
	133kPa	6 units	6 units	5 units
	1.33kPa	4 units max	4 units	3 units
	13.3Pa	3 units max	_	2 units
Air thermostatic chamber		50°C	80°C	50°C
Measurement range	N2@77K	P/Po=1E-8~0.997	P/Po=1E-6~0.997	P/Po=1E-8~0.997
	High pressure Adsorption	_	_	~950kPa
	H ₂ O	P/P ₀ =0.95@40°C	P/P ₀ =0.95@70°C	P/P ₀ =0.95@40°C

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