

**Quick! Easy!**

**Quick BET single point measurement instrument**

# BELSORP-MR1

## Features

### Highly-efficient measurement

- Simultaneous process of pretreatment and measurement realizes efficiency.
- Possible to evaluate BET single point specific surface area in about 15minutes (including calibration).

### Highly-accurate measurement

- AUTO-ZERO function is equipped with a highly sensitive thermal conductivity detector (TCD). Enabled high accuracy, high sensitivity and high reproducibility.
- A dedicated calibration valve allows simple and stable calibration measurements.
- Temperature and pressure are automatically measured and used for accurate calibration.

### Easy operability

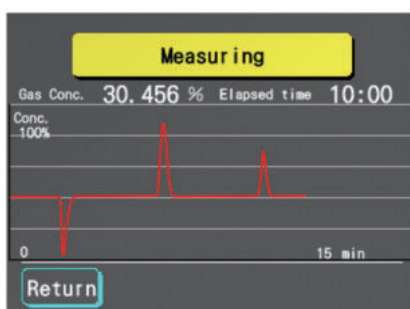
- Simple operation with an automatic Dewar elevator and a cooling fan.
- User-friendly operation with a touch panel screen.
- Measurement results list and trend data can be saved to a USB memory.
- Compact design without PC conserves space.



## Touch-screen



Initial screen



Measurement screen

Measurement Complete	
ID	0001
Sample Name	#3845
SSA	52.13 m <sup>2</sup> /g
Weight	0.215 g
CF	111.230 %·sec/cm <sup>3</sup>

Measurement result

## Applications

BELSORP-MR1 can be used in various fields such as catalyst, fuel cell, battery, textile, polymer materials, medicine, pigment, cosmetics, magnetic powder, separation membrane, filter, toner, cement, ceramic, semiconductor materials, etc.



Catalyst



Battery



Medicine



Cosmetics



Cement



Toner



Pigment



Electronic component



Mineral

**Specialists in Adsorption**

## Specifications

Principle	Dynamic flow gas method
Measurement mode	BET single point method
Number of measured samples	1 sample
Adsorption gas	N <sub>2</sub>
Pretreatment temperature	Up to 400°C
Relative measurement pressure	0.3
Measurement time	Approx.15min./sample (excluding pretreatment time) ※Depends on the sample
Specific surface area Measurement range	0.01m <sup>2</sup> /g or more
Reproduction	±1% ※by sampling
Detector	TCD
Dimensions, Weight	350(W) × 553(H) × 368(D) mm 30kg
Utility	Gas: 30% N <sub>2</sub> / He, N <sub>2</sub> : 0.15Mpa 1/8" Swegelok Power: AC110V/AC230V, 400W 50/60Hz

※The result may display after 3~5minutes from rising the dewar vessel.

## Supplies

090-20003-0-0	Small sample cell φ8
090-20004-0-0	Large sample cell φ8
900-00064-0-0	P8 O-ring (12pcs/set)
060-20034-0-0	Filter element (6pcs/set, 8mm diameter)
060-20009-0-0	Sample tube stand (for weighing)
060-21007-0-0	Sample tube stand (for 6 tubes)
090-21009-0-0	Paper funnel (100pcs/set)
990-00004-0-0	Reference sample Reference material for specific surface area, Carbon Black, 0.3g



※Specifications and appearance of the products listed are subject to change without notice.

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