

Surface Area And Pore Size Analyzer



- Item No.:TOB-JW-BK222
- Order(Moq):1
- Payment:L/C,T/T,Western Union
- Price:\$30000/SET
- Product Origin:China
- Shipping Port:XIAMEN
- Lead Time:7

Product Detail

Surface Area and Pore Size Analyzer For Powder Material Research

SPECIFICATIONS

Power

Voltage: 100V~220V \pm 10V

Frequency: 50/60Hz

Maximum power: 300W

Connection: grounding, single-phase power socket

Physical properties

Length: 60cm (23.6 inches)

Width: 48cm (18.9 inches)

Height: 74cm (29.1 inches)

Weight: 60kg (132.3 lbs)

Accessories Weight: 30kg (66.1 lbs)

Installation requirements (L * W) 100 * 60cm (not including space computers taking up)

Functions

- Surface area measurement: BET surface area (Single-point and multi-point), Langmuir surface area,
T-plot method outer surface area, T-plot method the total inner surface area of microporous,
BJH adsorption cumulative surface area of the total pore, BJH desorption cumulative surface area of the total pore
- Determination of pore volume: Single point total pore volume, BJH adsorption cumulative total pore volume
BJH desorption cumulative total pore volume
T-plot method the total pore volume of micropore
- Determination of average pore size:
Adsorption average pore diameter
BJH adsorption average pore diameter
BJH desorption average pore diameter
The most frequency pore
- Pore size distribution:
BJH adsorption and desorption differential pore size distribution ($dV / Dr-D$) and ($dV / d\log D-D$)
BJH adsorption and desorption integral distribution (or cumulative distribution)
MP method micropore distribution

Technical Parameters

Test principle: the static volumetric method, gas adsorption;

Analysis Models: BET, Langmuir, BJH, t-plot, DR, MP and NLDFT;

Measuring range: surface area $\geq 0.005\text{M}^2/\text{g}$, no upper limit; pore size 2 _ 500nm; pore volume 0.0001cc/g, no upper limit;

Sorption gas: N₂ (high purity); Ar, Kr, CO₂, etc. available

Analysis No: Two independent analysis ports

Degassing stations: Two

Sample Type: powders, granules, fibers, flakes and other materials

Sensor : Two sensors, 0_1000 torr P.S (0_133kpa);

Test Efficiency: multi-point BET surface area _12 minutes per sample;

Determination pore size distribution from adsorption isotherms _1.5h per sample;

Determination pore size distribution from adsorption and desorption isotherms _3.5 h per sample.

Nitrogen Partial Pressure: P/P_0 4×10^{-5} _ 0.998, the minimum resolvable relative pressure 5×10^{-5}

Ultimate vacuum: $4.0 \times 10^{-2}\text{Pa}$ (3×10^{-4} torr)

Pressure Accuracy: $\leq \pm 0.15\%$ (F.S)

Repeatability accuracy: surface area $\leq \pm 1.0\%$ (surface area) ; $\leq 2\text{nm}$ (pore size)

Operation Mode: Automatic