

N500 Gas Permeation Tester



Note :

Due to keeping innovation,
the specification and
Machine pictures or color
are subject to alteration
without notice!

Function and usage

Model N500 Gas permeation tests the gas transmission rate (GTR) of packaging material.

This instrument is widely used in food industry, pharmaceutical industry, cosmetics flexible packaging materials industry (plastic film, barrier materials, sheets, metal aluminum, PVC, PVC sheets), college, university and quality institution for gas(O₂, CO₂, N₂, ect) permeation test and quality control.

It carries the standards of ISO 2556-2001, ISO 15105-1, GB/T 1038-2000, ASTM D1434-82 (2003), YBB00082003.

Working principle

Use different pressure method. Put the prepared sample between the upper and lower chamber, clamping it. Then do the vacuum for the whole system. Close the lower testing chamber, input test gas in the upper chamber, make sure form constant pressure between the two side of test sample, for differential conditions, the gas will permeate from the high pressure to lower pressure side, by monitoring the pressure of the lower pressure side to get parameters of various kinds testing

Specifications

Measuring range:

0.02~5000 cm³/m² .day.0.1Mpa

0.2~50000 cm³/m² .day.0.1Mpa(by use expansion the mode)

Measuring accuracy : 0.01cm³/m².day.0.1Mpa

Testing temperature range : 15°C~45°C,

Temperature precision : ±0.1°C

Resolution ratio : 0.1pa

Vacuum : <20pa

Carried gas inlet : 1/8 inch

Sample thickness : ≤2mm

Dimension : 700(L)mm×520(W)mm×380(H)mm

Power supply : AC220 V/50Hz

Sample area : Φ80mm, transmission area 50.24cm²,
(no stipulate for area in international)

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Features

1. Automatic test, user friendly, non-maintenance design.
2. Two test mode of high and low, width measurement range, high precision.
3. Superior components, accurate test result, high stability.
4. Automatically increase and decrease temperature, no special requirements to the environment.
5. All parameters display on the real time.
7. Multi-level security protection design, excellent performance , and sustainable operation.
8. With CE,UL,FCC certifications.
9. Versatile language support.