

Gas Transmission Rate Tester for Aluminum Foil

This gas permeation testing instrument measures the gas transmission rate (GTR) of packaging materials. It is widely used in the food, pharmaceutical, and flexible packaging industries for materials like plastic film, barrier materials, sheets, and metal aluminum.



Product Overview

Precision Gas Permeation Testing

The N500 Gas Transmission Rate Tester is a specialized instrument designed to measure the gas permeability of flexible packaging materials, including aluminum foil, plastic films, and PVC sheets. Utilizing a differential pressure method, this device accurately monitors the permeation of gases like O₂, CO₂, and N₂ to ensure quality control. It is an essential tool for research institutions and industries such as food and pharmaceutical packaging, where barrier properties are critical for product shelf life.

Technical Performance

Measuring Range (Standard)

0.02 cm³/m²-day

Lower Limit

5000 cm³/m²-day

Upper Limit

Measuring Range (Expanded)

0.2 cm³/m²-day

Lower Limit

50000 cm³/m²-day

Upper Limit

Measuring Accuracy

0.01 cm³/m²-day

Compliance & Standards

Supported Standards

ISO 2556-2001, ISO 15105-1, GB/T 1038-2000, ASTM D1434-82 (2003), YBB00082003

Applications

Target Industries

Food Industry • Pharmaceutical Industry • Flexible Packaging • Quality Control Institutions • Research & Development

Tested Materials

- Plastic film
- Barrier materials
- Metal aluminum foil
- PVC sheets