

Aluminum Foil Gas Permeation Tester

The N500 gas permeation tester 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.



Overview

Precision Gas Permeation Testing

The N500 Gas Permeation Tester is a professional-grade laboratory instrument designed to measure the gas transmission rate (GTR) of various packaging materials, including aluminum foil, plastic films, and PVC sheets. It utilizes a differential pressure method to accurately determine permeation rates for gases such as O₂, CO₂, and N₂. This device is an essential tool for quality control in the food, pharmaceutical, and flexible packaging industries, ensuring compliance with international testing standards.

Performance Metrics

Standard Measuring Range

0.02 cm³/m²-day

Lower Limit

5000 cm³/m²-day

Upper Limit

Expanded Measuring Range

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

Industry Applications

- Food Industry
- Pharmaceutical Industry
- Flexible Packaging Materials
- Plastic Film & Sheets
- Metal Aluminum
- PVC Sheets
- Universities & Research Institutions