

Nitrogen Gas Permeation Tester

This nitrogen permeation tester measures the gas transmission rate (GTR) of packaging materials. It is widely used in the food, pharmaceutical, and flexible packaging industries for quality control.



Product Overview

Precision Gas Permeation Testing

The N500 Gas Permeation Tester is a professional laboratory instrument designed to accurately measure the gas transmission rate (GTR) of various packaging materials. It utilizes a differential pressure method to test barrier properties, making it an essential tool for quality control in the food, pharmaceutical, and flexible packaging industries. By monitoring pressure changes across the sample, the device provides reliable data for material selection and product integrity assurance.

Technical Specifications

Standard Measuring Range

0.02 cm³/m²-day

Lower Limit

5000 cm³/m²-day

Upper Limit

Extended 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, YBB00082003

Application Areas

Industry Applications

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

Testing Capabilities

Testable Gases

O₂ • CO₂ • N₂