

Gas Permeation Analyzer for Aluminum Foil

This gas permeation analyzer tests 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, and aluminum foil.



Overview

Precision Gas Permeation Analysis

The N500 Gas Permeation Analyzer is a professional-grade testing instrument designed to measure the Gas Transmission Rate (GTR) of barrier materials, including aluminum foil, plastic films, and PVC sheets. It utilizes a differential pressure method to provide accurate permeation data for gases such as O₂, CO₂, and N₂. This system is an essential tool for quality control in the food, pharmaceutical, and flexible packaging industries, ensuring compliance with international testing standards.

Performance Metrics

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 Testing Standards

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

Technical Specifications

Supported Gases

- Oxygen (O₂)
- Carbon Dioxide (CO₂)
- Nitrogen (N₂)

Test Methodology

Differential Pressure Method

Applications

Target Industries

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