

# 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 cm<sup>3</sup>/m<sup>2</sup>-day**

Lower Limit

**5000 cm<sup>3</sup>/m<sup>2</sup>-day**

Upper Limit

### Extended Measuring Range

**0.2 cm<sup>3</sup>/m<sup>2</sup>-day**

Lower Limit

**50000 cm<sup>3</sup>/m<sup>2</sup>-day**

Upper Limit

### Measuring Accuracy

0.01 cm<sup>3</sup>/m<sup>2</sup>-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

O<sub>2</sub> • CO<sub>2</sub> • N<sub>2</sub>