

Gas Transmission Rate Tester

This gas transmission rate (GTR) tester assesses the gas transmission rate of packaging materials. It finds application in the food, pharmaceutical, and flexible packaging industries for materials like plastic film, barrier materials, sheets, and aluminum foil.



Product Overview

Precision Gas Permeation Testing

The N500 Gas Transmission Rate (GTR) Tester is a specialized instrument designed to measure the gas permeability of diverse packaging materials, including plastic films, barrier materials, and metal foils. It utilizes a differential pressure method to accurately monitor gas transmission rates for gases such as O₂, CO₂, and N₂. This device is essential for quality control and research in the food, pharmaceutical, and flexible packaging industries.

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

International Standards

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

Applications

Suitable Industries

- Food Industry
- Pharmaceutical Industry
- Flexible Packaging Materials
- Academic Research
- Quality Control Institutions

Testable Materials

- Plastic Film
- Barrier Materials
- Sheets
- Metal Aluminum
- PVC Sheets