

Oxygen Transmission Rate Analyzer

The oxygen permeation tester measures the oxygen transmission rate (OTR value) of high barrier materials, sheets, and compound materials. It is suitable for testing PVC, rubber, paper, glass, metal, bottles, and blood bags.



Overview

Precision Oxygen Permeation Analysis

The Oxygen Transmission Rate (OTR) Analyzer is a high-precision instrument designed to measure oxygen permeability in a wide range of materials, including films, sheets, solar boards, and finished containers like bottles and blood bags. Utilizing advanced Coulometry theory and high-precision sensors, it delivers reliable OTR values essential for quality control in the food, pharmaceutical, and flexible packaging industries. The system supports multiple international testing standards, ensuring compatibility and accuracy for global research and industrial applications.

Technical Standards

Supported Standards

GB/T 19789-2005, ASTM D 3985-1995, ASTM F 1927-1998, ASTM F 1307-1990, YBB00082003, ISO 15105-2003, DIN 53380-3-1998, JIS K-7126

Performance Metrics

Measurement Units

- $\text{cm}^3 / (\text{m}^2 \cdot 24\text{h})$
- ppm

Applications

Industries Served

Food Industry • Pharmaceutical Industry • Cosmetics • Flexible Packaging • Academic & Research

Compatible Materials

- High barrier materials
- Sheets
- Solar boards
- Compound materials
- PVC
- Rubber
- Paper
- Glass
- Metal
- Bottles
- Blood bags