

Oxygen Transmission Rate Tester

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



ADDITIONAL IMAGES



Overview

Precision Oxygen Barrier Analysis

The Oxygen Transmission Rate (OTR) Tester is a high-precision instrument designed to measure the oxygen permeation rate of various barrier materials including films, sheets, and finished containers. It utilizes advanced coulometry theory to provide accurate data for quality control in the food, pharmaceutical, and flexible packaging industries. This system ensures product integrity and shelf-life optimization by delivering reliable OTR values compliant with multiple international standards.

Applications

Testable Materials

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

Target Industries

Food Industry, Pharmaceutical Industry, Cosmetics, Flexible Packaging, Research & Education

Compliance & Standards

International 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

Technical Specifications

Working Principle	Coulometry theory with high precision sensors
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Measurement Units	cm ³ / (m ² ·24h) or ppm
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