Oxygen Transmission Rate Tester

The oxygen transmission rate tester measures the amount of oxygen that permeates through materials such as films, sheets, and packaging. It uses a coulometric sensor to accurately determine the oxygen transmission rate (OTR) according to ASTM D 3985-1995 standards.

ADDITIONAL IMAGES

Overview

Precision Oxygen Permeation Analysis

This advanced oxygen transmission rate (OTR) tester is engineered to evaluate the barrier properties of diverse materials, including flexible packaging, plastic sheets, and finished containers like bottles and blood bags. Utilizing high-precision coulometry theory, the instrument ensures accurate, repeatable measurements essential for quality control in the food, pharmaceutical, and cosmetics industries. With integrated temperature and humidity control and dual testing chambers, it provides a reliable solution for research and industrial compliance testing.

Technical Standards

Compliance 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

System Features

Key Features

- Coulometric sensor technology
- Dual testing chambers for simultaneous measurement
- Integrated temperature and humidity control
- Touch screen interface for data visualization
- Automated testing procedures

Measurement Units

$cm^3/ (m^2 \cdot 24h)$ • ppm

Applications

Industry Applications

- Food Packaging
- Pharmaceutical Packaging
- Cosmetics
- Flexible Packaging Materials
- Academic & Quality Institutions

Testable Materials

Material Category
High barrier materials
Plastic sheets and films
Compound materials
PVC and Rubber
Paper, Glass, and Metal
Bottles and Blood bags