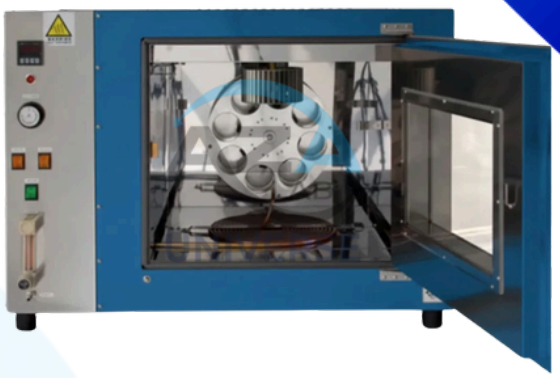
ROLLING THIN FILM OVEN AZA0968

The AZA0968 Rolling Thin Film Oven (RTFO) is a precision laboratory instrument designed to simulate the short-term aging of asphalt binders under controlled heat and airflow conditions.



This test replicates the oxidative aging that occurs during hot mixing, transportation, and laying of asphalt, making it a critical component in binder performance evaluation, Superpave grading, and pavement durability prediction.

The AZA0968 ensures accurate assessment of changes in viscosity, stiffness, and rheological properties, enabling engineers to design durable and crack-resistant pavements.

Key Functional Features

High-Precision Temperature Control

- Maintains 163°C ± 0.5°C
- Ensures accurate and repeatable aging conditions

Uniform Heating & Airflow System

- Calibrated airflow to each bottle
- Ensures consistent oxidation across all samples

Motorized Rotating Carriage

- Rotation speed: 15 ± 0.2 rpm
- Smooth, vibration-free operation

Stainless Steel Test Chamber

- Corrosion-resistant
- Excellent thermal stability

Advanced Air Injection System

- Controlled airflow:
- 4000 ± 200 mL/min per bottle

Digital PID Control System

- Microprocessor-based controller
- Real-time temperature monitoring and control

Thermal Insulation

- High-efficiency insulation for energy savings
- Maintains internal temperature stability

Safety Features

- Over-temperature protection
- Door interlock system

Standards Compliance

The AZA0968 conforms to:

- ASTM D2872 – Effect of Heat and Air on a Moving Film of Asphalt
- AASHTO T240 – RTFO Method
- IS 9382 – Indian Standard (where applicable)

AZA LAB UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0968
Product Type	Rolling Thin Film Oven (RTFO)
Test Temperature	163°C
Temperature Accuracy	±0.5°C
Rotation Speed	15 ± 0.2 rpm
Airflow Rate	4000 ± 200 mL/min per bottle
Sample Capacity	8 RTFO bottles
Chamber Material	Stainless Steel
Outer Body	Powder-coated MS / Stainless Steel
Insulation	High-efficiency thermal insulation
Control System	Microprocessor PID controller
Safety Features	Over-temp cut-off, door interlock
Power Supply	230V AC, 50 Hz
Compliance	ASTM D2872, AASHTO T240, IS 9382