LOSS ON HEATING THIN FILM OVEN AZA0966

The AZA0966 Loss on Heating Thin Film Oven (LOH) is a precision laboratory instrument designed to evaluate the short-term aging characteristics of asphalt binders under controlled heat and air exposure.

It is widely used for determining:

- Loss in mass due to volatilization
- Oxidative hardening of bitumen

This test simulates the aging conditions experienced during hot mixing, transportation, and laying of asphalt, making it a critical tool for binder quality control, mix design validation, and pavement performance prediction.

Key Functional Features

- High-Precision Temperature Control

Maintains 163°C ± 0.5°C

Ensures consistent and standard-compliant testing

- Uniform Heat Distribution

Excellent thermal uniformity across chamber

Guarantees repeatable and reliable results

- Motorized Rotating Shelf

Continuous rotation (~5.5 rpm)

Ensures even exposure of all samples

- Stainless Steel Chamber

Corrosion-resistant

High thermal stability

- Advanced Control System

Digital / microprocessor-based controller

Clear display and precise regulation

- Energy-Efficient Insulation

Minimizes heat loss

Maintains stable internal conditions

- Robust Laboratory Construction

Designed for continuous and long-term use

Performance Benefits

- Accurate Aging Simulation

Replicates real-world asphalt production conditions

- High Repeatability

Uniform heating and controlled exposure

- Standards Compliance

Meets global and national specifications

- Improved Pavement Performance

Helps prevent premature failures

- Reliable QC Tool

Ensures consistent binder quality

TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0966
Product Type	Loss on Heating Thin Film Oven (LOH / TFO)
Test Temperature	163°C (adjustable)
Temperature Accuracy	±0.5°C
Rotation Speed	Approx. 5.5 rpm
Sample Capacity	4 – 8 pans (typical)
Chamber Material	Stainless Steel
Outer Body	Powder-coated MS / Stainless Steel
Insulation	High-efficiency thermal insulation
Control System	Digital / Microprocessor
Operation	Automatic temperature & rotation control
Compliance	ASTM D6, ASTM D1754, AASHTO T179, IS 9382