AZA LAB / MATERIAL TESTING EQUIPMENT

ROTATING BITUMINOUS ROLLING THIN-FILM OVEN

AZA1181A | TECHNICAL DATASHEET



ASTM D2872 • AASHTO T240

PRODUCT OVERVIEW

The AZA1181A Rotating Bituminous Rolling Thin-Film Oven is designed to assess the short-term heat-aging characteristics of pavement asphalt binder. By heating and rotating asphalt samples under a controlled airflow, the apparatus supports evaluation of mass loss and changes in binder properties after aging.

Designed for laboratory testing in accordance with ASTM D2872 and AASHTO T240, the oven operates at a nominal test temperature of 163 °C and accommodates eight sample bottles.

KEY CAPABILITIES

- Stainless-steel liner, inner door and sample container
- Eight-position rotating sample bottle rack
- Operating temperature 163 °C ±0.5 °C; maximum stated temperature 200 °C
- Rotating rack speed 15 ±2 rpm
- Controlled airflow of 4,000 ±200 mL/min
- 120 W squirrel-cage circulation fan operating at 1,400 rpm
- 3 kW heating system with 220 V ±10% electrical supply

APPLICATIONS

Used to condition paving asphalt binders by controlled heat and airflow and to assess aging-related mass loss. ASTM D2872 and AASHTO T240 are the stated test methods; confirm full method compliance and bottle dimensions with the supplier.

TECHNICAL SPECIFICATIONS

01 / TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Model	AZA1181A
Test standards	ASTM D2872 / AASHTO T240
Rated voltage	220 V ±10%
Heating power	3 kW
Working temperature	163 °C ±0.5 °C
Maximum stated temperature	200 °C
Rotating plate speed	15 ±2 rpm
Sample bottle outer diameter	64 mm
Sample bottle opening diameter	31.75 mm
Sample bottle height	139.7 mm
Squirrel-cage fan motor	120 W
Squirrel-cage fan speed	1,400 rpm
Rotating motor	6 W
Airflow	4,000 ±200 mL/min
Sample bottles	8 pcs
Chamber materials	Stainless-steel liner, inner door and container

02 / CONSTRUCTION

Stainless-steel construction is specified for the oven liner, inner door and container. The apparatus includes an eight-bottle rotating rack and a squirrel-cage circulation fan.

03 / APPLICATION

- Short-term aging of pavement asphalt binders
- Evaluation of mass loss after heating
- Laboratory asphalt quality control and research

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