



UNIVERSE DISTILLATION FOR CUT BACK BITUMEN AZA0937

The AZA0937 Distillation Apparatus for Cut-Back Bitumen from Azalab is a precision-engineered laboratory system designed for the quantitative determination of volatile diluents (fluxing agents or solvents) present in cut-back asphaltic materials.

This test is critical for assessing curing characteristics, application workability, and in-service performance of cut-back bitumen used in road construction and pavement maintenance.

Cut-back bitumen utilizes volatile solvents to temporarily reduce viscosity. The AZA0937 enables controlled distillation and accurate recovery of these components, allowing precise classification and compliance verification with international specifications.

Key Functional Features

- High-Accuracy Volatile Content Determination
Enables precise grading and performance evaluation
- Borosilicate Glass Construction
Resistant to thermal shock and high temperatures





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- Precision Graduated Receiver

Accurate distillate volume measurement

- Uniform Heating System

Electric hot plate or mantle with regulator/digital control

- Distillation Shield with Chimney

Maintains thermal stability and minimizes heat loss

- Robust Structural Support

Stable setup with stands and clamps for safe operation

Applications

- Road construction and pavement QA/QC laboratories
- Asphalt and bitumen production facilities
- Civil engineering testing laboratories
- Academic and research institutions
- Government and regulatory laboratories

Standards Compliance

Fully compliant with:

- ASTM D402 – Distillation of Cutback Asphalt
- AASHTO T78 – Distillation of Cutback Asphaltic Products
- EN 13303 – Determination of volatile components in bituminous binders



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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0937
Test Method	Distillation of volatile diluents
Sample Volume	~200 ml
Distillation Flask	500 ml, borosilicate, side-arm
Condenser	Water-cooled glass condenser
Receiver	100 ml graduated (Crow Receiver)
Heating Device	Electric hot plate/heating mantle with regulator
Distillation Shield	Insulated metal shield with chimney
Thermometers	ASTM 7C (-2 to 300°C), ASTM 8C (-2 to 400°C)
Support	Stand, clamps, adapters
Power Supply	230V, 50/60 Hz, single phase
Dimensions	Approx. 300 × 300 × 600 mm
Weight	Approx. 5–8 kg