KINEMATIC VISCOMETER BATH AZA0948

The AZA0948 Kinematic Viscometer Bath from Azalab is a precision-controlled laboratory system designed to provide a stable, uniform temperature environment for determining the kinematic viscosity of liquids using calibrated glass capillary viscometers.

Accurate viscosity measurement is essential for quality control and specification compliance in bitumen, asphalt, petroleum products, lubricants, and industrial fluids. The AZA0948 ensures high repeatability and standards-compliant results through advanced temperature control and uniform heat distribution.

Kinematic viscosity, expressed in centistokes (cSt) or mm^2/s, is highly temperature-dependent. The AZA0948 addresses this requirement using PID-based temperature control and continuous circulation, ensuring precise thermal stability during testing.

Key Functional Features

- High-Precision PID Temperature Control

Stability of ±0.1°C ensures accurate viscosity measurement

- Uniform Temperature Distribution

Integrated circulation system eliminates thermal variation

- Double-Walled Insulated Tank

Stainless steel inner chamber with thermal insulation

- High Visibility Design

Toughened glass windows for clear observation

- Multi-Viscometer Capability

Supports simultaneous testing (2–8 positions, model dependent)

- Corrosion-Resistant Construction

SS304 tank suitable for oils and bituminous materials

- Laboratory-Grade Build Quality

Designed for continuous QA/QC and R&D use

Standards Compliance

Fully compliant with:

- ASTM D445 – Kinematic Viscosity of Liquids
- IS 1206 (Part 3) – Bituminous Materials Testing
- ISO 3104
- IP 71

Widely used for:

- VG Bitumen grading (IS 73)
- MoRTH specifications (India)

Ensures globally accepted and reproducible results.

AZA LAB UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Test Method	Kinematic viscosity (capillary viscometers)
Temperature Range	Ambient +5°C to 100°C / 120°C
Optional Range	Up to 150–200°C (high-temp configuration)
Temperature Stability	±0.1°C or better
Controller	PID digital controller
Display Resolution	0.1°C
Stirring	Motorized circulation system
Inner Tank	Stainless Steel (SS304)
Outer Cabinet	Powder-coated GI / MS
Insulation	Glass wool / PUF
Viewing Windows	Toughened glass (two sides)
Capacity	2 / 4 / 6 / 8 viscometers
Power Supply	230 V AC, 50 Hz, single phase