



UNIVERSE RING AND BALL APPARATUS AZA0932

The AZA0932 Ring & Ball Apparatus from Azalab is a standard laboratory instrument designed for the manual determination of the softening point of bitumen, road tars, and bituminous binders.

The softening point is a critical parameter in bitumen grading and pavement design, particularly in regions with significant temperature variations. The AZA0932 provides a robust, reliable, and cost-effective solution for routine laboratory testing, fully compliant with Indian and international standards.

Design & Manual Operation

The AZA0932 is engineered for durability, stability, and ease of use, making it suitable for routine laboratory environments.

Construction Features

- Rigid steel bracket with sliding support plate
- Precision alignment for rings, balls, and thermometer positioning
- Manual stirrer for uniform bath temperature
- Open design for clear visual observation of ball drop
- Compact, benchtop-friendly configuration
- Economical manual system for standard QC laboratories

Standards Compliance

- IS 1205:1985 – Softening Point of Bitumen
- ASTM D36 – Ring and Ball Method
- EN 1427 – Bituminous binders
- IP 58 / IP 63 – Institute of Petroleum
- AASHTO T53 – Softening Point Test





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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0932
Operation	Manual
Test Method	Ring & Ball Softening Point
Application	Bitumen and binders
Temperature Range	Ambient to ~150°C
Heating Method	External (not included)
Temperature Measurement	Thermometer (not included)
Observation	Manual
Beaker Capacity	~600 ml
Construction	Steel frame with glassware
Design	Compact benchtop
Standards	IS 1205, ASTM D36, EN 1427
Origin	Made in India