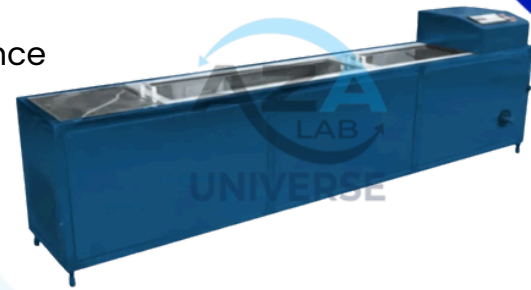




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## **REFRIGERATED DUCTILITY TEST AZA0957**

The AZA0957 Refrigerated Ductility Test Apparatus from AZALAB is a specialized laboratory instrument designed for the determination of ductility of bituminous materials at low temperatures. It is essential for evaluating binder performance under cold climatic conditions, where reduced flexibility can lead to thermal cracking and premature pavement failure. By accurately measuring the elongation of asphalt binders under controlled low-temperature conditions, the AZA0957 enables engineers to assess flexibility, crack resistance, and long-term pavement durability.



### **Key Functional Features**

- Integrated Refrigeration System
  - Maintains stable low temperatures (down to  $-20^{\circ}\text{C}$  or below)
  - Ensures reliable cold-condition testing
- Thermostatically Controlled Bath
  - Uniform temperature distribution
  - Eliminates thermal gradients during testing
- Digital Temperature Controller
  - Precise temperature setting and monitoring
  - High stability ( $\pm 0.5^{\circ}\text{C}$  or better)
- Motorized Pulling Mechanism
  - Smooth, jerk-free elongation
  - Ensures consistent test conditions
- Digital Elongation Measurement
  - Clear display of elongation values
  - Minimizes human reading errors



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**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Specification</b>
Model	AZA0957
Test Type	Refrigerated Ductility Test
Temperature Range	Down to $-20^{\circ}\text{C}$ or lower (model dependent)
Temperature Accuracy	$\pm 0.5^{\circ}\text{C}$ or better
Temperature Control	Digital controller with refrigeration system
Pulling Speed	Constant (typically $\sim 5$ cm/min as per standards)
Maximum Elongation	100 cm / 150 cm
Measurement System	Digital elongation display
Specimen Type	Standard briquette molds
Power Supply	230 V AC, 50 Hz, Single Phase

**Standards Compliance**

- The AZA0957 conforms to:
- ASTM D113 – Ductility of Bituminous Materials
- AASHTO T51
- Relevant Indian Standards (IS / IRC guidelines as applicable)