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MORTAR PENETROMETER AZA1115

The AZA1115 Mortar Penetrometer is a precision-engineered instrument designed to determine the rate of hardening and setting characteristics of mortar extracted from freshly mixed concrete. Based on the penetration resistance method, it provides accurate identification of initial and final setting times, making it an essential tool for quality control and mix evaluation.

Fully compliant with ASTM C403, the apparatus ensures reliable, repeatable, and standardized results for both laboratory and field applications. It is widely used in construction sites, ready-mix concrete (RMC) plants, cement laboratories, and research facilities.

The AZA1115 features a robust spring-loaded mechanism, a precision-calibrated force scale, and six interchangeable penetration needles, enabling accurate measurement across different stages of mortar stiffening.

Key Features

- ASTM C403 Compliant – Meets international testing standards
- Accurate Setting Time Measurement – Determines initial and final set
- Spring-Loaded Mechanism – Provides consistent penetration resistance readings
- Wide Measurement Range – 0–70 kg with fine graduations
- Interchangeable Needles – Six sizes for varying mortar stiffness
- Precision Depth Control – Marked stem for accurate penetration depth
- Portable Design – Supplied in a durable wooden carrying case





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TECHNICAL SPECIFICATIONS

Feature	Specification
Model	AZA1115
Standard Compliance	ASTM C403
Measurement Range	0 – 70 kg (1 kg increments)
Needles Included	6 (645, 323, 160, 65, 32, 16 mm ²)
Penetration Depth	25 mm (marked at intervals)
Display Type	Analog spring mechanism with sliding ring
Construction	Hardened steel, corrosion-protected
Carrying Case	Wooden box
Application	Mortar from sieved fresh concrete

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