AZA LAB / MATERIAL TESTING EQUIPMENT

ABRASION TESTING MACHINE FOR GLAZED TILES (8 SAMPLES)

AZA1261B | TECHNICAL DATASHEET



PRODUCT OVERVIEW

The AZA1261B Abrasion Testing Machine evaluates the surface abrasion resistance of glazed ceramic tiles using an eccentrically rotating disc and abrasive media. Eight rubber-lined specimen holders permit simultaneous testing of up to eight samples.

Manufacturer-stated compliance: IS 13630 (Part 11) and EN ISO 10545-7. The unit includes a safety dome cover. Testing-method conformity should be verified against the applicable standard edition.

KEY CAPABILITIES

- Eight-sample testing capacity with rubber-lined specimen holding rings
- 580 mm rotating disc; 22.5 mm eccentricity; 300 ± 10 rpm
- Four- and one-cup configurations are also listed as available options
- Wet abrasion media supplied: 1, 2, 3 and 5 mm steel balls; 80-grit white fused alumina
- Four-digit preset counter with memory backup and key-lock reset
- Safety dome cover supplied; rigid base and corrosion-resistant finish

TECHNICAL SPECIFICATIONS

01 / TECHNICAL DATA & CONFIGURATIONS

Parameter	Specification
Model	AZA1261B
Product	Surface Abrasion Tester for Glazed Tiles — 8 samples
Referenced standards	IS 13630 (Part 11); EN ISO 10545-7 (supplier claim)
Rotating disc / eccentricity	580 mm diameter / 22.5 mm offset
Disc speed	300 ± 10 rpm
Max. simultaneous specimens	8; other options: 1 or 4 cups
Specimen ring (ID × height)	83 × 25.5 mm
Test area centre from disc centre	195 mm
Motor / electrical supply	1/4 HP; 230 V AC; 50 Hz; single-phase
Electronic counter	4-digit preset; memory backup; key-lock reset
Wet abrasion consumables	1, 2, 3, 5 mm steel balls; 80-grit alumina
Dimensions / weight	1100 × 760 × 630 mm; approx. 125 kg
Included safety accessory	Safety dome cover
Optional accessories	Viewing cabinet; float glass; oven; balance; dry media

02 / OPERATING PRINCIPLE & CONSTRUCTION

Specimens are secured in rubber-lined rings on a horizontal mild-steel disc. The disc rotates eccentrically (22.5 mm offset), producing a 45 mm circular travel path at 300 ± 10 rpm. Wet abrasive media comprise steel balls, white fused alumina and distilled water. A motor-driven V-belt/pulley assembly, counterweight and preset electronic counter support controlled abrasion cycles and automatic motor stop.

03 / SUPPLIED MATERIALS & OPTIONAL ACCESSORIES

Supplied: steel balls (1, 2, 3 and 5 mm), 80-grit white fused alumina and safety dome cover.

Optional at extra cost: porcelain cylinders (50 each, 20 × 20 mm and 15 × 15 mm), 30-grit silicon carbide, float-glass calibration plates, drying oven, weighing balance and visual assessment cabinet. Confirm calibration-glass thickness: 6 mm and 10 mm

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