

QC-619K Abrasion Tester

JIS-A1453, K6902, K6911 K-7204 K5400 L1096 ASTM-D4157, D1044, D1175 SAE J948

A. Description

Using specified Grinding wheel with specified Load rubs the surface of specimen and then measures the weight difference after testing, and records it as abrasion level. Some will evaluate by naked eye.

B. Specification



Grinding Wheel	Diameter 2inch, thickness1/2 inch
Distance	※ Distance between two wheels : 63.5 mm ※ Distance between wheel and the center of tray : 38 mm
Rotary Speed	Step motor, 1~100 rpm, adjustable
Weight sets	250g×1, 750g×1 (basic weight 250g
Counter	Digital display, 8 figures · auto-stop
Sample size	Diameter: Ø110mm,center hole Ø7.5mm Thickness: 1 ~ 6mm, soft and rigid material are all available
Feature	Easy to remove the grip seat
Optional Device	※ Special grip seat for wet abrasion test, extra-thick sample ※ Grinding wheel
Accessories	Vacuum cleaner(1 set), specimen cutter(1 pc), Wrench(1 pc), sand paper(10 pieces), grinding wheel (1 set)
Power	Single phase,100 ~ 240V
Dimension	55 × 38 × 47 cm
Weight	30 kg

C. Related information

1. Formula: Abrasion index = loss weight / Rotary circle x 1000
2. Reference of using different grinding wheel for different specimen

Coating	Floor tile	Plywood	Plastic	Cloth
CS10 、 CS17	CS17 、 H18	CS32 、 CS33	H18 、 H22 、 CS17	H18 、 H22 、 CS17

The bond of sand is varying with the number of grind wheel; the higher number is more suitable for soft material. Sand of CS type is thinner than H type, suitable for hard material.

3. Formula

$$X = \frac{W_1 - W_2}{n} \times 1000$$

X : Abrasion index

W_1 : Weight before abrasion

W_2 : Weight after abrasion

n : Rotation numbers

