

# TABER LINEAR TESTER

## 10-42-00



### Measure Abrasion Resistance

The Taber® Linear Abraser incorporates a “free-floating head” that strokes in a linear motion and can test virtually any size or shape- flat, concave or convex. Interchangeable attachments can be used to convert the instrument from a Wear Tester to a Scratch Tester, Crock Meter or custom configuration. When used as a wear tester, a ¼ inch wide wear path is generated from 0.5 inch to 4 inches in length.

The Taber® Linear Abraser is ideal for testing plastics, automotive components, painted parts, printed graphics, optical products, rubber, leather, textiles and for use in testing laboratories.

With adjustable stroke length, speed, load, and a wide selection of Taber Wearasers, the Linear Abraser allows you to customize test parameters to your exact needs. An optional specimen table provides additional flexibility for small or odd-shaped samples. Plus, optional attachments can be used to perform scratch, coin scrape, Crockmeter, rub and custom testing. The Linear Abraser abrades with a Wearaser®. The size and shape of a pencil eraser, the Wearaser uses the high-quality Taber abrasive media found in our world-famous wheels so you're assured of consistent test results.

### Applications

Paints, Coatings, Optical, Membrane switches, Molded plastics, Automotive, Textiles

### Features

- Measure abrasion resistance and other material properties of finished products of any size or shape- flat, concave or convex
- Versatile testing with a single, rugged, durable machine.
- Two operating modes, Run (*during normal testing*) and Reface mode is provided for wear testing and allows the user to reface the abradant without having to reprogram the number of cycles.
- Maintain consistent testing standards with Taber's world famous abrasives.
- Stroke lengths 0.5", 1.0", 2.0", 3.0", 4.0"
- Variable Stroke speeds 2-75 cycles per minute
- Preset stroke speeds: 2, 15, 25, 30, 40, 60 cycles per minute
- Programmable test duration: Up to 9,999 cycles (note-abradant may wear prior to end of test)
- Adjustable load 350-2100 grams w/optional weight discs
- CS-10 Calibrase® Wearasers are included.
- Custom abradants available.
- Meets ASTM D-6279, ASTM F-1319, ISO 105-X12 and more

## Specifications

Model	10-42-00
Stroke lengths	0.5", 1.0", 2.0", 3.0", 4.0"
Stroke speeds	variable from 2-75 cycles per minute
Preset stroke speed	2, 15, 25, 30, 40, 60 cycles per minute
Adjustable load	350-2100 grams w/optional weight discs
Electrical	115V/230V switchable
Weight	13.6 kg (30 lbs)
Dimensions W x D x H	279 mm x 229 mm x 508 mm (11 in x 9 in x 20 in)

### **Linear Abraser includes:**

Wearaser Collet and Spline Shaft (350 grams)  
250 gram Weight Discs (3 ea.)  
CS-10 Wearasers (pkg. 10)  
H-18 Wearasers (pkg. 5)  
Power Cords (115V & 230V)  
Hex L-Key Tool  
Wearaser Depth Gauge Tool  
S-14 Refacing Strips (pkg. 50)  
Hand Brush

## Standards

ASTM D-6279	Test Method for Rub Abrasion Mar Resistance of High Gloss Coatings
ASTM D-2197	Test Method for Adhesion of Organic Coatings by Scrape Abrasion
ASTM D-5178	Test Method for Mar Resistance of Organic
ASTM F1319	Standard Test Method for Determination of Abrasion and Smudge Resistance of Images Produced from Business Copy Products (Crockmeter Method)
AATCC Method 8	Colorfastness to Crocking
EN 2267-010	Colorfastness to Crocking
EN 3745-503	Aerospace series - Fibres and cables, optical, aircraft use - Test methods - Part 503: Scrape abrasion
ISO Method 165	Colorfastness to Crocking; Textile Floor Coverings
ISO 105-X12	Textiles - Tests for Colour Fastness, Part X12: Colour Fastness to Rubbing
ISO 6722	Road vehicles -- 60 V and 600 V single-core cables -- Dimensions, test methods and requirements
JIS L 0849	Test Methods for Colour Fastness to Rubbing (Crockmeter)

### **Other Attachments (sold separately)**

Wide selection of abrasants using high quality abrasive media found in Taber abrading wheels:  
Calibrase® CS-10F, CS-10, CS-17; Calibrade® H-10, H-18, H-22

Diamond scratch tool (aluminum or stainless steel), Coin scrape attachment (available as 45°, 60°, 75°)

Jumbo Wearaser Collect kit (plastic or aluminum), Crockmeter kit, Universal kit, Precision Knuckle

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