



elcometer® Taber 5700 Linear Abraser



Whatever your product, be it curved, round, big or small, the new Linear Abraser from Taber® can test it. Using a free floating head to follow the contours of the sample, the Taber® 5700 is the ideal abrasion tester.

Abrasion media, length of stroke, load and speed of stroke can all be user defined to meet your particular requirement.

The Linear Abraser abrades with a Wearaser™. The size and shape of a pencil eraser, the Wearaser™ uses the same high quality Taber® abrasive media as used on the Taber® Rotary Abrasers.

Choose from a wide selection of abrasion **Wearasers™** to simulate real-life wear conditions.

Each Taber® 5700 Linear Abraser includes:

- Auxiliary weight - 500g load
- Wearaser™ depth gauge tool
- Fuses
- Instruction manual
- Wearaser™ CS-10 (pack of 10)
- Refacing strips (pack of 50)
- Hex L - key tool
- Refacing discs, 100pcs (S-11)
- Wearaser™ H-18 (pack of 5)
- Power cords
- Hand brush (S-12)

Part Numbers

| Model | Description | Part Number |
|----------------|------------------------------------|---------------------|
| Elcometer 5700 | Linear Abraser (110/230V, 60/50Hz) | ST985700 |
| Accessories | Abrading Wearasers™ | Abrading Wearasers™ |



Test Method – Abrasion

The Unique Abrasion Process

A unique 'X' pattern of abrasion is produced by the rotary rub/wear action of the wheels. Wear action occurs as the wheels are turned by the rotating sample. An area of 30 square centimeters is subjected to wear at any one time, and a complete circle of the material surface is abraded at all angles of grain or weave.

In order to customise the test to your requirements, choose from a wide variety of abrading wheels and abraser accessories to simulate real-life wear conditions.

Changing the abraser wheels and change the test! - Selecting the Abrading Wheels

The choice of abrading wheels for the Taber® 5130/5131 and 5150/5151 should be based upon the wear the specimen material will be subjected to in everyday use.

Taber® Abrading Wheels are available in five levels of abrasiveness to suit a wide range of material testing applications. Wool felt or plain rubber wheels test the delicate materials or the abrasiveness of materials such as dental powders. Wheels which feature abrasive particles in a resilient matrix of rubber or a hard matrix of vitrified clay are suitable for stiffer materials.

- **Calibrase®** - a resilient wheel composed of rubber and aluminium oxide abrasive particles
- **Calibrade®** - a non-resilient wheel composed of vitrified clay and silicon carbide abrasive particles
- **Wool Felt** - contains no abrasive particles
- **Plain Rubber** - contains no abrasive particles unless used with sandpaper strips
- **Tungsten Carbide** - severe cutting and tearing action with helical teeth for use on resilient materials such as rubber, leather or floor coverings.

Abrading Wheels Selection Chart

| <u>Model</u> | <u>Type</u> | <u>Composition</u> | <u>Load range (grams)</u> | <u>Abrasive action</u> |
|-----------------------|----------------|---------------------------|---------------------------|----------------------------------|
| CS -10F | Resilient | Rubber and Abrasive Grain | 250 - 500 | Very Mild |
| CS -10 | Resilient | Rubber and Abrasive Grain | 500 - 1000 | Mild |
| CS -17 | Resilient | Rubber and Abrasive Grain | 500 - 1000 | Harsh |
| H -10 | Non-Resilient | Vitrified Clay | 500 -1000 | Coarse |
| H - 18 | Non-Resilient | Vitrified Clay | 500 -1000 | Medium Coarse |
| H - 22 | Non-Resilient | Vitrified Clay | 500 - 1000 | Very Course |
| H - 38 | Non-Resilient | Vitrified Clay | 250, 500, 1000 | Very Fine, Hard |
| CS - 0, S - 32 | Resilient | Non-Abrasive Rubber | 200, 500, 1000 | Very Mild |
| S - 42, S - 33 | Resilient | Sand Paper Strips | 500 - 1000 | Medium |
| CS - 5 | Resilient | Wool Felt | 250 - 500 | None |
| S - 35 | Non- Resilient | Tungsten Carbide | 500 -1000 | Severe Cutting or Tearing Action |
| S - 39 | | Leather | 500 -1000 | Used with Grit Feeder |

