

Taber Rotary Platform Abraser

Principle:

Taber Rotary Platform Abraser, commonly known as the Taber Abraser (Abrader), is used for evaluating abrasion and wear resistance.

The test consists of mounting a test panel (100 x 100mm) on a turntable, rotating at 60(±2) revolutions per minute, with wheels of an abrasive material resting on the surface. As the turntable and wheels rotate, a wear pattern is created on the test surface.

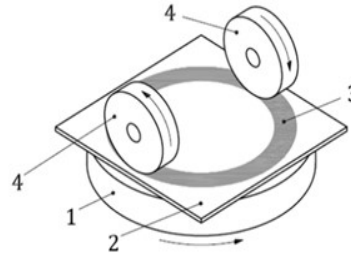
The wheels consist of a rubber wheel on top of which is an abrasive material (silicon carbide or aluminium oxide). They are applied at a specific pressure lowered onto the specimen surface.

The abrasion wheels are interchangeable to mimic real life wear such as that produced continuous handling, polishing and cleaning.

A characteristic rub-wear action is produced on the surface of the test piece and the resulting abrasion marks form a pattern of crossed arcs in a circular band.



Current model: 5155 Abraser



Key

- 1 turntable
- 2 test specimen
- 3 wear zone
- 4 abrasive wheels

Video Link: <https://youtu.be/idJGrLcaDIQ>

Typical samples:

Taber Abraser samples are virtually flat and include metals, plastics, coatings, laminates, leather, paper, ceramics etc.

Standards:

Samples can be assessed in accordance with international standards such as: ATSM D4060-2019.

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