

## Hand Abrasion Tester

# TRIBOTOUCH®

**Abrasion marks on the surface - caused by the human hand - is the main reason for perception of poor quality of a product.**

The hand abrasion is a very complex chemical and mechanical stress on the surface. By touching a surface the human hand performs a mechanical strike followed by a push-slide force. The human hand consists of a visco elastic material containing a rough and structured surface. In addition, sweat or hand cream creates a severe chemical environment.

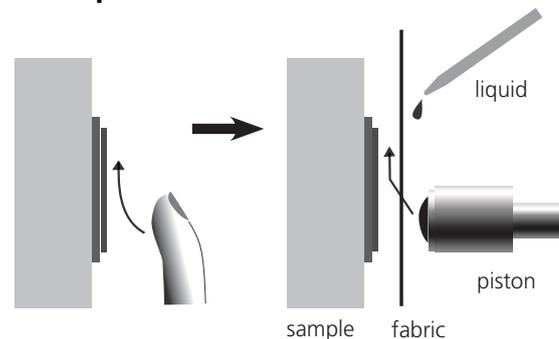


## TRIBOTOUCH®

The TRIBOTOUCH features real life testing on finished products or lab samples according to national and international specifications as well as to company standards.

The electronically controlled movement of the piston allows various options and delivers reproducible results.

### Principle of human touch



### Norms / Specifications

International Norm: EC 68-2-70

European Norm: EN 60068-2-70

German Norm: DIN 60068-2-70

Abrasion of markings and letterings caused by rubbing of fingers and hands.

### Technical data

Normal load: 1, 5, 10 N (20N optional)

Friction path: 1 - 40mm

Number of cycles: 1 - 100 million

Fluid feed: cyclic

Fabric feed: cyclic

Power supply: 110V / 230V

Dimensions: 100 x 50 x 50 cm, 90kg

### Mechanical options

#### Fingernail scratch test

Simulation of scratches through finger nail

#### Dirt affinity

Simulation of soiling of surfaces

#### Shoe sole scratch test

Simulation of rub resistance with shoe sole

#### Cleaning sponge test

Simulation of cleaning with kitchen sponge

More Options on request



## Examples of hand abrasion:

### Markings/Labels



### Coatings



### Surface Structure



### Soiling (dirt affinity)



## Chemical options

### Artificial Sweat

Artificial Sweat according to ISO, DIN and Automotive specifications.

### Hand cream / Sun lotion

Hand cream and Sun lotion according to customer specification.

More options on request.

## Applications

Automotive market:

- Printing on switches
- Coating of door handles

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White goods:

- Printing
- Painted surface

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Computer industry:

- Keyboard
- Mouse

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Telecom:

- Surface of handhelds
- Switches

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Security:

- Banknotes
- Security features

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