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# Manual

## Adhesion Tester PCE-TAT 10



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## 1 Introduction

Thank you for purchasing a PCE-TAT 10 from PCE Instruments.

### Delivery content

1 x adhesion tester PCE-TAT 10  
 6 x measuring probes: 3 x no. 1, 3 x no. 2  
 1 x cutter  
 1 x wrench  
 1 x two-component epoxy adhesive  
 1 x super glue  
 1 x instruction manual  
 1 x wooden transport case

## 2 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. There is no warranty of damages or injuries caused by non-observance of the manual.

- The device may only be used in the approved temperature range.
- The case should only be opened by qualified personnel of PCE Instruments.
- The instrument should never be placed with the user interface facing an object (e. g. keyboard side on a table).
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth / use only pH-neutral cleaner.
- Maintenance should be solely carried out by the manufacturer. In case of trouble, please contact PCE Instruments.
- After testing and whenever you want to store the device, release the spring mechanism by turning the knob until the swivel moves freely in the device body.
- Store the device in a place free of dust, fumes, acids, alkalis and corrosive gases.
- As long as the device is in its case, it can be transported by any means of transport. Please make sure to adhere to the relevant rules and requirements.
- During transportation, operation and storage, make sure that the device is not subject to impacts, shocks or moisture.

This user's handbook is published by PCE Instruments without any guarantee.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments.

### 3 Specifications

Refractive power	200 kg
Diameter of the measuring heads	15.1 mm (No. 1) and 19.5 (No. 2)
Specific tearing force, MPa	Measuring probe no. 1 up to 10 MPa (100) Measuring probe no. 2 up to 6 MPa (60)
Scale MPa	1 (No. 1) and 2 (No. 2)
Storage conditions	+5 ... +40 °C / ≤80 % RH at 25 °C
Weight	Not more than 1 kg
Dimensions	150 x 70 mm
Dimensions packaging	L180 x W150 x H100 mm

### 4 Instructions

#### 4.1 Preparation for use

- Clean the surface of the measuring probe and the surface where you want to place the probe, for example by using fine sand paper.
- Prepare the epoxy adhesive as instructed on the packaging and mix it thoroughly.
- If you use single-component super glue, open the tube.
- Apply the glue to the surface and place the measuring probe on the surface covered with glue, as described in more detail on the packaging.
- Use the cutter to slightly scratch the area around the measuring probe.

#### 4.2 Operation

- Turn the top knob of the adhesion tester counter-clockwise to release the gripping mechanism and the spring.
- Now screw the adhesion tester (thread at the bottom) onto the measuring probe until the device reaches the surface to be tested.
- Turn the top knob clockwise until the measuring head is released from the test surface. You can read the tearing force from scale 1 or 2, depending on the measuring probe used.
- If the measuring probe has not been separated from the surface, turn the knob counter-clockwise to release the spring mechanism and remove the device from the measuring probe.
- Separate the measuring head from the surface, using a chisel and hammer.
- If the measuring probe has been separated from the surface, unscrew it from the device, using the wrench.
- Clean the surface of the measuring probe from glue and paint residues and splinters.

## 5 Disposal

For the disposal of batteries, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

If you have any questions, please contact PCE Instruments.



## 6 Contact

If you have any questions about our range of products or measuring instruments please contact PCE Instruments.

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