

## Approved cleaning chemicals and procedures for cleaning

### Hoffmann TAM panels

- Acetone
- Spiritus
- Benzine
- Tap water (drinking water)
- Ultrasonic cleaning

### Impermissible cleaning agents

- Do not use oxidizing chemicals
- Do not use cleaning temperatures above 104 °F (40° C)
- Do not use any detergents containing chloride
- Do not use any sulphate-containing cleaning agents
- Do not use any hot degreasing systems

### Attention:

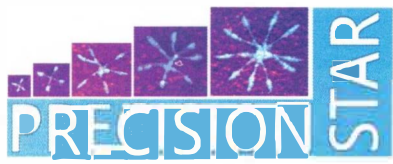
Exposing the TAM Panel to highly oxidizing chemicals can cause discoloration (dark oxidation stains) on the panel surface.

Oxidation stains can be removed again.

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# Hoffmann - TAM Panel

## Usage Stains (spots)- Cleaning Recommendations

Usage stains on the roughness surfaces of the Hoffmann TAM panels are quite normal and often arise after the first use of the panel. After panel cleaning, fingerprints or residues of evaporated acetone or water residue leave stains on the roughness surfaces, which is normal and unavoidable in Hoffmann TAM panels. After the first use of the Hoffmann TAM Panel, the roughness surfaces can often no longer be cleaned completely free of usage stains, which is normal and unavoidable in Hoffmann TAM panels.

Usage stains have no negative impact on the PT display capability of the Hoffmann TAM panel. Also, dark oxidation stains have no negative impact on the PT display capability of the Hoffmann TAM panel. Oxidation stains have only a tiny thickness of just 1 micron, for comparison: the crack depth of all 5 crack displays is 76 microns.

- **Advantages of the Hoffmann surface material:**  
Better and more accurate star cracks, very narrow and very uniform crack widths.  
Very dimensionally accurate star diameter, very long-lasting star cracks.  
The cracks are quick and easy to clean.
- **Disadvantages of the Hoffmann surface material:**  
After first use, cleaning spots (stains) form on the roughness surfaces.  
Do not use oxidizing cleaners.

### **We recommend the following cleaning process after the PT tests:**

The cracks in the Hoffmann TAM Panel can be cleaned very quickly with the following method:

60 seconds cleaning time in the ultrasonic cleaner with acetone are enough and all the cracks in the panel are clean.

(Insert the TAM panel into the ultrasonic cleaner, pour in acetone to about 5 mm above the plate, do not use a heater on the ultrasonic cleaner. The acetone cleaner can be reused several times for panel cleaning.)

### **The following mistakes can permanently close and destroy the star cracks:**

- Do not polish the star cracks with polish- or abrasive grain. Polishing would destroy the star cracks and lock the cracks.
- Do not press the star cracks with great mechanical forces, this would destroy the star cracks.
- Nano particles (residues of cleaning agents, dirt from components) can glue close and seal the star cracks.

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## Special questions for TAM Panel cleaning

Why should you clean Hoffmann TAM Panel not above 40° C?

As the temperature increases, so too does the chemical oxidation ability of many chemicals increases.

Why are not all chemicals and higher cleaning temperatures approved for cleaning Hoffmann TAM panels?

Cleaning Hoffmann TAM Panel with non-approved chemicals or temperatures could cause dark spots on the panel surface. We will not exchange the stain panel, we will not refund the purchase price.

We have tested the approved chemicals and maximum temperatures for cleaning. These chemicals and temperatures do not cause any dark oxidation stains on the TAM panel.

All other chemicals and temperatures we did not test.

How can the customer test other chemicals and temperatures himself?

Our suggestion: A new customer initially buys only 1 Hoffmann TAM panel to then test the panel in the process.

The customer should then test this panel for about 2 months in the daily application process.

If after 2 months no visually disturbing oxidation stains on the panel surface are created, then in the future there will be no oxidation problem with the customer's chemicals.

Will oxidation spots be removed when recalibrating the TAM panel?

Yes, if you have your panel recalibrated at Hoffmann, then we will also automatically remove any oxidation stains on the panel, at no extra charge.

The roughness area (Ra = 1.3 micrometers) will also be completely rebuilt as part of a recalibration.

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