



# Penetrant Testing

*Product information*

**MR® 673 F Penetrant fluorescent**

## **MR® 673 F Penetrant fluorescent, level 3** for Penetrant Testing acc. to EN ISO 3452-1:2013

---

### **General appearance and composition:**

- Water removable penetrant fluorescent, type I acc. to EN ISO 3452-1:2013
- Free of mineral oil
- Very good biodegradability acc. to EN ISO 9888
- Suitable for all metals (suitability for plastics and ceramics needs testing prior to use)
- Low background fluorescence
- Aerosol cans over head sprayable
- Processing temperature -10 to +100 °C

### **Relevant approvals and specifications**

- Sample testing acc. to DIN EN ISO 3452-2:2006
- Sensitivity class 2 acc. to DIN EN ISO 3452-2:2006
  - System IAc**
    - Remover: Water
    - Developer: MR® 703 W
- Sensitivity class 3 acc. to DIN EN ISO 3452-2:2006
  - System IAd**
    - Remover: Water
    - Developer: MR® 70
- Sensitivity class 3 acc. to DIN EN ISO 3452-2:2006
  - System IAa**
    - Remover: Water
    - Developer: MR® 81 T-R
- Sensitivity class 3 acc. to DIN EN ISO 3452-2:2006
  - System ICd**
    - Remover: MR® 79, MR® 85, MR® 88
    - Developer: MR® 70
- Low content of halogens and sulphur according to EN ISO 3452-2:2006

### **Application:**

- Remove tinder, rust and other contaminations from surface in a suitable manner. A possible precleaner for removal of oils or fats is e.g. our remover MR® 79.
- Apply MR® 673 F Penetrant fluorescent to the part to be tested either by spraying, brushing, flooding or dipping. Allow to penetrate for at least 5 minutes.
- Remove excess penetrant from surface with water.
- Wet developer:  
Spray MR® Developer from a distance of approx. 20 cm on the dry surface. Please note: If the developer layer is too thick tiny discontinuities will not appear through the developer.



# Penetrant Testing

## Product information

### MR® 673 F Penetrant fluorescent

#### Powder Developer:

Dust MR® Powder developer on dry surface (e.g. with electrostatic spray gun or powder ball).

- Under UV-light surface defects will appear as yellow-green fluorescent indications.

#### **Minimum shelf life:**

- Will keep for a minimum of 4 years, storage temperature: +5°C - +45°C

#### **Pack sizes:**

- Aerosols, 500 ml (1 box contains 12 aerosols)
- 5 L, 30 L, 200 L
- Valve pen

## Biodegradability

#### **General:**

MR® 673 F Penetrant fluorescent was tested regarding biodegradability by an independent institute, using the "Zahn-Wellens" method.

#### Result:

- The wash water containing MR® 673 F Penetrant fluorescent is 99 % biodegradable if it contains max. 1 % of pure MR® 673 F Penetrant fluorescent.

#### **Our customers' advantages:**

- Once the local operator of the purification plant grants permission, the wash water from excess penetrant removal may be lead into the drains.
- The mixing with further waste waters which may occur in your house needs additional examination prior to discharge of sewage!
- Waste water treatment can be dispensed with, thereby reducing costs.

#### **Our recommendation:**

- Ask for a copy of the test report and further documentation for presentation at your local operator of the purification plant!

We shall be pleased to assist you.