



Penetrant Testing

Product information

MR[®] 671 F Penetrant fluorescent



MR[®] 671 F Penetrant fluorescent Level 1

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
- Water mixable
- Free of mineral oil
- Very good biodegradability according to EN ISO 9888
- Suitable for all metals (suitability for plastics and ceramics needs testing prior to use)
- Low background fluorescence
- Processing temperature +10 to +50 °C
- Aerosol can over head sprayable

Relevant approvals and specifications

- Sample testing acc. to DIN EN ISO 3452:2006 part 2
- Sensitivity class 1 acc. to DIN EN ISO 3452:2006 part 2
- **System IAc**
 - Remover: Water
 - Developer: MR[®] 703 W
- Sensitivity class 1 acc. to DIN EN ISO 3452:2006 part 2
- **System IAd**
 - Remover: Water
 - Developer: MR[®] 70
- Sensitivity class 1 acc. to DIN EN ISO 3452:2006 part 2
- **System IAa**
 - Remover: Water
 - Developer: MR[®] 81 T-R
- Sensitivity class 1 acc. to DIN EN ISO 3452:2006 part 2
- **System ICd**
 - Remover: MR[®] 79, MR[®] 85, MR[®] 88
 - Developer: MR[®] 70
- Low content of halogens and sulphur according to EN ISO 3452 part 2

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[®] 671 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. When using MR[®] water developer we recommend the use of our spraying unit MR[®] 8020 Hot-Air Equipment. Please note: If the developer layer is too thick tiny discontinuities will not appear through the developer.



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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, stored at room temperature

Pack sizes:

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

Biodegradability

General:

MR[®] 671 F Penetrant fluorescent was tested regarding biodegradability by an independent institute, using the "Zahn-Wellens" method.

Result:

- The wash water containing MR[®] 671 F Penetrant fluorescent is 99 % biodegradable if it contains max. 1 % of pure MR[®] 671 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.