



# Penetrant Testing

Product information

MR<sup>®</sup> 68 NF Penetrant red and fluorescent



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for penetrant testing according to EN ISO 3452-1 and EN ISO 3452-6

### General appearance and composition:

- Water and solvent removable penetrant red and fluorescent, type II & III acc. to EN ISO 3452-1
- Free of mineral oil, based on glycols
- Suitable for all metals (suitability for plastics and ceramics needs testing prior to use)
- Without AZO-dye-stuff
- Testing security is guaranteed at work piece temperatures:  
System IIIAc, IIIAe, IIIEe: between +10 °C and +50 °C  
System IIICe: between -10 °C and +50°C
- Very good biodegradability according to EN ISO 9888
- Aerosol overhead sprayable

### Relevant approvals and specifications

- Sample testing acc. to EN ISO 3452-2 and EN ISO 3452-6
- **Sensitivity class 2 acc. to EN ISO 3452-2**
  - System IIAc and IIIAc
    - Remover: Water
    - Developer: MR<sup>®</sup> 703 W
  - System IIAe and IIIAe
    - Remover: Water
    - Developer: MR<sup>®</sup> 70
  - System IICe and IIICe
    - Remover: MR<sup>®</sup> 79, MR<sup>®</sup> 85, MR<sup>®</sup> 88
    - Developer: MR<sup>®</sup> 70
  - System IIEe und IIIEe
    - Remover: Water + MR<sup>®</sup> 79, MR<sup>®</sup> 85, MR<sup>®</sup> 88
    - Developer: MR<sup>®</sup> 70
- **Sensitivity class 2 acc. to EN ISO 3452-6**
  - System IICe and IIICe
    - Remover: MR<sup>®</sup> 79, MR<sup>®</sup> 85, MR<sup>®</sup> 88
    - Developer: MR<sup>®</sup> 70
- Low content of halogens and sulphur according to DIN EN ISO 3452-2 and ASME Code V, Section V, Article 6, T-641
- In correspondence with Lloyd's Reg., Bureau Veritas, Det Norske Veritas, admitted by Framatome ANP
- Produits et Matériaux Utilisables en Centrales (PMUC)
- TLV 9017 01:2011-01



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## 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<sup>®</sup> 79.
- Apply MR<sup>®</sup> 68 NF Penetrant red and 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 either using water or a clean lint-free cloth lightly moistened with an MR<sup>®</sup> Remover.
- Spray MR<sup>®</sup> Developer (e.g. MR<sup>®</sup> 70) from a distance of approx. 20 cm on the dry surface, achieving a thin, uniform layer. Surface defects will appear as red indications on a white background or fluorescent under UV-light. Please note: If the developer layer is too thick tiny discontinuities will not appear through the developer.

## 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

## Biodegradability

### General:

MR<sup>®</sup> 68 NF Penetrant red and fluorescent was tested regarding biodegradability by an independent institute, using the "Zahn-Wellens" method.

### Result:

- The wash water containing MR<sup>®</sup> 68 NF Penetrant red and fluorescent is 96 % biodegradable if it contains max. 1 % of pure MR<sup>®</sup> 68 NF

### 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.