



## Penetrant Testing

Product information

MR<sup>®</sup> 67 PS - MR<sup>®</sup> 67 DL - MR<sup>®</sup> 67

**MR**<sup>®</sup>  
CHEMIE  
NDT-materials

TO SEE MORE!

## MR<sup>®</sup> 67 PS - MR<sup>®</sup> 67 DL - MR<sup>®</sup> 67 Penetrant red and fluorescent

for penetrant testing according to EN ISO 3452-1:2013



Application example MR<sup>®</sup> 67 PS: Test of a weld seam

### Product properties / advantages:

- Brilliant wetting
- No Azo-dye
- Very good biodegradability acc. to EN ISO 9888<sup>\*)\*)</sup>
- Solvents reduced to a minimum
- Environmentally friendly application
- **Water based, no odour nuisance**
- Testing security is guaranteed at work piece temperatures between +10 °C and +50 °C
- Dual crack detection under daylight and UV-light
- Suitable for metals, plastics and ceramics (suitability for ceramics needs testing prior to use)
- Agent without VOC
- **No declaration of hazardous ingredients<sup>2) 3)</sup>**
- Efficient application<sup>1)</sup>
- Precise apportioning<sup>1)</sup>
- No spray fog during application<sup>1)</sup>
- Less propellant<sup>1)</sup>
- **No propellant<sup>2)</sup>**
- Registered utility model<sup>1)</sup>



<sup>1)</sup> MR<sup>®</sup> 67 PS (Foam), <sup>2)</sup> MR<sup>®</sup> 67 DL (aerosol compressed air), <sup>3)</sup> MR<sup>®</sup> 67 (bulk)

<sup>\*)</sup> The wash water containing MR<sup>®</sup> 67 PS / MR<sup>®</sup> 67 / MR<sup>®</sup> 67 DL is 93 % biodegradable (tests were carried out using the "Zahn-Wellens"-method) if it contains max. 1 % of pure MR<sup>®</sup> 67 PS / MR<sup>®</sup> 67 / MR<sup>®</sup> 67 DL; for details ask for our special information sheet „Biodegradability of MR<sup>®</sup> 67 PS / MR<sup>®</sup> 67 / DL Penetrant red and fluorescent“

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# Penetrant Testing

Product information

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TO SEE MORE!

## Relevant approvals and specifications

- Sample testing acc. to EN ISO 3452-2:2006
- Sensitivity class 2 acc. to EN ISO 3452-2:2006,  
System IIIAe
  - Remover: Water
  - Developer: MR<sup>®</sup> 70
- System IIIAc
  - Remover: Water
  - Developer: MR<sup>®</sup> 703 W
- System IIICe
  - Remover: MR<sup>®</sup> 79, MR<sup>®</sup> 85, MR<sup>®</sup> 88
  - Developer: MR<sup>®</sup> 70, MR<sup>®</sup> 70 W
- Low content of halogens and sulphur according to DIN EN ISO 3452:2006-2:2006 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

## 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.
- Penetrant foam:  
Spray MR<sup>®</sup> 67 PS Penetrant red and fluorescent penetrant foam on the part to be tested. Spray at an angle, with nozzle facing downwards. The active foam breaks down and wets the test surface. Allow to penetrate for at least 5 minutes.
- Aerosol compressed air:  
Spray MR<sup>®</sup> 67 DL Penetrant red and fluorescent penetrant foam on the part to be tested. Allow to penetrate for at least 5 minutes.
- Bulk:  
Apply MR<sup>®</sup> 67 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 (MR<sup>®</sup> 70, MR<sup>®</sup> 70 W or MR<sup>®</sup> 703 W) from a distance of approx. 20 cm on the dry surface, achieving a thin, uniform layer. Surface defects will appear as red indications. Please note: If the developer layer is too thick tiny discontinuities will not appear through the developer.

## Minimum shelf life:

- MR<sup>®</sup> 67 PS Penetrant foam: Will keep for a minimum of 2 years, stored at room temperature
- MR<sup>®</sup> 67 Bulk: Will keep for a minimum of 2 years, stored at room temperature
- MR<sup>®</sup> 67 DL Aerosol: Will keep for a minimum of 1 year, stored at room temperature
- Protect against frost!

## Pack sizes:

- MR<sup>®</sup> 67 PS Penetrant foam:  
Aerosols, 250 ml (1 box contains 20 aerosols)
- MR<sup>®</sup> 67 Bulk:  
5 L, 30 L, 200 L
- MR<sup>®</sup> 67 DL Aerosol:  
Aerosols, 300 g (active substance!) (1 box contains 12 aerosols)

→ **The advantage of aerosols with the propellant compressed-air is that at a netto product volume of 300 ml they contain approx. 30-40 % more usable test medium than a 500 ml aerosol with propellant propane/butane.**

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