



Penetrant Testing

Product information MR® 67 PS - MR® 67 DL - MR® 67



MR[®] 67 PS - MR[®] 67 DL - MR[®] 67 Penetrant red and fluorescent

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



Product properties / advantages:

- Water and solvent removable red penetrant, type II + III acc. to EN ISO 3452-1
- Optimized application of aerosol can because of varied aerosol technology²⁾
- No residues of penetrant on the aerosol can after spraying²⁾
- Brilliant wetting
- No Azo-dye
- Very good biodegradability acc. to EN ISO 9888*)*)
- Solvents reduced to a minimum
- Environmentally friendly application
- Water based, no odour nuisance
- Processing temperature: +10 to +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
- ECO-Line No declaration of hazardous ingredients acc. to CLP - regulation (EC) Nr. 1272/2008²⁾³⁾
- Efficient application¹⁾
- Precise apportioning¹⁾
- No spray fog during application¹⁾
- Less propellant¹⁾
- No propellant²⁾
- Registered utility model¹⁾
- Aerosol can overhead sprayable 360°C²⁾



 $^{1)}$ MR $^{\otimes}$ 67 PS (Foam), $^{2)}$ MR $^{\otimes}$ 67 DL (aerosol compressed air), $^{3)}$ MR $^{\otimes}$ 67 (bulk)

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Technical changes reserved!







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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® 70

System IIIAc

Remover: Water Developer: MR[®] 703 W

System IIICe

Remover: MR[®] 79, MR[®] 85, MR[®] 88

Developer: MR® 70

System IIAe

Remover: Water Developer: MR® 70

System IICe

Remover: MR[®] 79, MR[®] 85, MR[®] 88

Developer: MR[®] 70

System IIEe

Remover: Water, MR[®] 79, MR[®] 85, MR[®] 88

Developer: MR[®] 70

- 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 Register of Shipping, Bureau Veritas, Bureau Central Hollandais, Germanyscher Loyd, MIL-I-25135/QPL-25135, AMS 2644, ASME Boiler and Pressure Vessel, ASTM E165 and ASTM E1417

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.
- Penetrant foam:
 - Spray MR[®] 67 PS Penetant 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[®] 67 DL Penetant red and fluorescent penetrant foam on the part to be tested. Allow to penetrate for at least 5 minutes.
- Bulk:
 - Apply MR[®] 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® Remover.
- Spray MR® Develoer 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.

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Minimum shelf life:

 Will keep for a minimum of 2 years, stored at room temperature. Protect against frost!

Pack sizes:

- MR[®] 67 PS Penetrant foam: Aerosols, 250 ml (1 box contains 20 aerosols)
- MR[®] 67 Bulk:
 5 L, 30 L, 200 L
- MR[®] 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.

Biodegradability

General:

MR® 67 Penetrant red and fluorescent was tested regarding biodegradability by an independent institute, using the "Zahn-Wellens" method.

Result:

The wash water containing MR[®] 67 Penetrant red and fluorescent is 93 % biodegradable if it contains max. 1 % of pure MR[®] 67 Penetrant red and 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.

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