CHECKMOR® 240

DARK RED COLOR CONTRAST PENETRANT

1 Description

Checkmor® 240 is a visible light inspection penetrant as per the AMS 2644 Type 2 and EN ISO 3452 Part 2, Type II, which can be removed by water or solvents. It is used in non-destructive testing for the detection of defects such as cracks, laps, cold shuts, porosity, bursts, casting and welding discontinuities.

Checkmor® 240 is a low viscosity liquid penetrant with excellent wetting properties to ensure optimum coverage of the part. Its dark red color allows easy control and monitoring of the washing process. The product offers the highest sensitivity level according to EN ISO 3452.

Checkmor® 240 is also qualified for inspection at low temperature down to -10°C/15°F in accordance with the EN ISO 3452 Part 6.

Checkmor® 240 is a solution of non-hazardous azo dye in a blend of biodegradable surfactants and high flash point distillates.

Checkmor® 240 is available as bulk material and as aerosol. It is typically used together with the penetrant remover S76 and the developer LD7.

Conformances

✓ ASME Boiler & Vessel Code	Section V, Article 6
✓ EN ISO 3452-2	Type II, Method A & C, Level 2, Level 2
✓ EN ISO 3452-6	Type II, Method C, Level 2, Level 2
✓ SAE AMS 2644	Type 2 (approval)

Ask your Chemetall representative for a complete list of approvals

2 Physical and chemical properties

Property	Typical Value	Unit	Test Method
Appearance	Dark red, mobile liquid	-	-
Density	Approx. 0,89 @ 20 °C / 68 °F	g/ml	-
Viscosity	7 at 38 °C / 100 °F	mm²/s	-
Flash point	> 93 °C / 201 °F	-	-

These are typical values only and do not constitute a specification.

3 Method of use

Checkmor® 240 may be applied by aerosol, brushing, flow-on, immersion, spray or by swab.

3.1 Pre-cleaning and Drying

Clean part with e.g. S72, S76, S80 or S85 before applying Checkmor® 240 penetrant. Apply cleaner to the part and wipe clean with cloth. Surface has to be free of grease, oil and dirt. Allow part to dry before applying penetrant.

3.2 Penetrant application

Surface temperature should be between -10 and 50°C (15-120°F).

Apply a thin even film of Checkmor® 240 penetrant to cover test area. Allow penetrant 10–30 minutes penetration time before removing.

3.3 Penetrant removal

Remove excess surface penetrant with clean cloths, pre-moistened with cleaner (e.g. S72, S76, S80 or S85). Alternatively, removal can be effected by rinsing with water (for application over 5°C / 41°F). Do not flush surface with cleaner as sensitivity will be impaired. Repeat procedure until surface penetrant has been removed.

Thoroughly dry the component surface before developer application.

3.4 Developer

Shake developer (e.g. LD7 or LD9) thoroughly. Spray an even developer film over area to be inspected (spraying distance 30 cm / 1 ft.). Allow 10–30 minutes developing time before evaluation.

3.5 Inspection

Inspection should take place in diffused white light of at least 500 lux at the component surface.

3.6 Cleaning

After final inspection, components can be cleaned using e.g. S72, S76, S80 or S85.

Note: the procedure above is a recommendation only; where relevant, the process specifications of the approving authorities must be followed.

4 Effects on materials

When Checkmor® 240 is used in the prescribed manner, no significant corrosion is likely to occur on commonly used constructional metals. The product may stain or soften some plastics and rubbers and, where appropriate, a compatibility test should be carried out.

5 Storage

Store in a cool place, with protection from freezing conditions. Shelf life is 36 months for aerosol cans and 60 months for bulk material.

6 Labor and environmental protection

Before operating the process described it is important that this complete document, together with any relevant Safety Data sheets, be read and understood.

All local and national regulations on the transport, storage, use and waste treatment of chemicals in concentrated or diluted form and as working solutions must be obeyed.

7 General Information

Chemetall supplies a wide range of chemical products and associated equipment for cleaning, descaling, paint and carbon removal, metal working and protection and non-destructive testing. Sales Executives are available to advice on specific problems and applications.

The above details have been compiled to the best of our knowledge on the basis of tests and research work and with regard to the current state of our practical experience. This technical product information is non-binding. No liabilities or guarantees deriving from or in connection with this leaflet can be imputed to us. Statements relating to possible uses of the product do not constitute a guarantee that such uses are appropriate in a particular user's case or that such uses do not infringe the patents or proprietary rights of any third party. The reproduction of any or all of the information contained in this leaflet is expressly forbidden without Chemetall's prior written consent.

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