CHECKMOR® 300

COLOR CONRAST / FLUORESCENT PENETRANT

1 Description

Checkmor® 300 is a visible and fluorescent inspection penetrant as per the EN ISO 3452 Part 2, Type III, which can be removed by water or solvents. It is used in non-destructive testing for forged parts, welds, castings etc.

Checkmor® 300 is a high sensitivity, azo-dye free penetrant and does not contain any aromatic hydrocarbons. The product has good removability characteristics and offers the highest sensitivity level according to EN ISO 3452. Checkmor® 300 can also be viewed with an ultraviolet light to give enhanced indication of the defects.

Checkmor® 300 is available as bulk material and as aerosol. It is typically used together with the penetrant remover S85 and the developer LD9.

Conformances

- ✓ ASME Boiler & Vessel Code Section V, Article 6
- ✓ EN ISO 3452-2 & -6 resp. Type III and II, Level 2

Ask your Chemetall representative for a complete list of approvals

2 Physical and chemical properties

Property	Typical Value	Unit	Test Method
Appearance	Clear bright fluorescent red liquid	-	-
Density	Approx. 0,92 @ 20°C / 68°F	g/ml	-
Viscosity	9 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® 300 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® 300 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® 300 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 gentle water spray or 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 Developing

Shake developer (e.g. LD7 or LD9) thoroughly. Spray thin, even developer film over area to be inspected (spraying distance 20 – 30 cm). Allow 10 – 30 minutes developing time before evaluation. Optionally, evaluation may be made under UV-light.

3.5 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® 300 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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