

Description

Checkmor® 300 is a water-washable red dye penetrant according to EN ISO 3452 Part 2, Type I, which can be removed by water or solvents – and a fluorescent penetrant according to EN ISO 3452 Part 2, Type III (dual purpose). It corresponds to the requirements of ASTM and ASME Code V Article 6.

Checkmor® 300 is a high sensitivity azo-dye free penetrant which does not contain any aromatic hydrocarbons. The product can be easily removed and offers the highest sensitivity level according to EN ISO 3452 Part 2. Checkmor® 300 can also be used with an ultraviolet light to give improved indication of the defects.

Checkmor® 300 is used e.g. in non-destructive testing of forged parts, welds, casts and drop forged parts.

Checkmor® 300 is used with Chemetall's penetrant removers S80 or S85 and the non-aqueous developer LD9.

Method of use

1. Pre-Cleaning

Clean part with e.g. Remover S85 before applying Checkmor® 300 penetrant. Apply wet film of cleaner to part and wipe clean with cloth. Surface has to be free of grease, oil and dirt. Allow part to dry before applying penetrant.

2. Penetrant Application

Spray a thin even film of Checkmor® 300 penetrant to cover test area. Allow penetrant 10 - 30 minutes penetration time before removing.

3. Penetrant Removal

Remove excess surface penetrant with clean cloths, pre-moistened with cleaner (e.g.S85). Alternatively, removal can be effected by water spray or by rinsing with water. DO NOT flush surface with cleaner as sensitivity will be impaired. Repeat procedure until surface penetrant has been removed.

4. Developer Application

Shake developer (LD9) thoroughly until agitator rattles. 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.

Attention: the procedure above is a recommendation only. Please respect the relevant rules and specifications for your application.

Effects on materials

Checkmor® 300 has no effect on most common materials of construction. It is safe to use on steel, aluminium, copper, magnesium and cadmium plate. Some plastics and rubbers may be softened by contact with this material hence it is advisable to check before using specific grades of these.

Technical information

Appearance: red, fluorescent liquid.
Density: approx. 0.92 g/ml at 20°C.
Flash Point: > 93 °C

Store Checkmor® 300 in a cool, dry place and away from sources of heat and avoid direct exposure to sunlight.

Equipment materials

Equipment/tanks should be constructed of stainless steel.

Safety guidance

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

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