

### Scope

ARDROX 9VF2 is a high sensitivity azo-dye-free red penetrant which can also be used with an ultraviolet light to give improved indication of the defects.

In view of its red and fluorescent modes of operation the need for separate red and low sensitivity fluorescent penetrants is no longer required when ARDROX 9VF2 is used. During inspection of a component, if there is any doubt concerning an indication in the red mode, then the added sensitivity of the fluorescent mode should be used.

### Chemicals required

ARDROX 9VF2

ARDROX penetrant remover

ARDROX 9D1B

### Method of use

Ensure that the area to be inspected is free from rust, scale, carbon, oil and grease. Clean area to be inspected with ARDROX penetrant remover.

Apply ARDROX 9VF2 to the area to be inspected and allow the penetrant to remain on the surface for 10 to 30 minutes.

After the dwell period, remove excess penetrant in one of the following ways:

1. Spray wash the surface. Typical figures for water washing are 15 to 35°C for 1 to 3 minutes at 20 to 25 psi. These are a guide only, practical trials should be carried out to establish the most suitable conditions to remove the excess penetrant from specific components.
2. Remove as much as possible of the penetrant by wiping with a clean cloth or tissue. Remove the remaining excess penetrant with a cloth or tissue moistened with ARDROX penetrant remover. Do not spray the penetrant remover directly onto the penetrant.

Apply a thin even film of ARDROX 9D1B onto the surface. Leave for at least 10 minutes before inspection.

Inspection should be carried out in good daylight (500 lux) or under an Ultra Violet light with an intensity of at least 1000  $\mu\text{W}/\text{cm}^2$ .

### Effects on materials

No corrosion is likely to occur when ARDROX 9VF2 is used in the prescribed manner.

Rubbers and plastics may be degraded and should be checked before use where such materials may be encountered.

## Technical information

Appearance: Clear bright fluorescent red liquid.

Flash Point: >93°C

Density: 0.92 g/ml

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

## 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.

## General information

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

## Labour and environmental protection

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.

Further specific information on the products can be found in the EC Safety Data Sheets supplied. The user should also pay strict attention to information and hazard symbols shown on product labels.

## Waste disposal

All waste waters must be treated in accordance with national legislation and local regulations prior to discharge to the sewer.

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