

AeroTest Flaw Detector

Developer Spray

PRODUCT OVERVIEW

AeroTest Flaw Detector Kit is a non-destructive inspection test designed to provide a fast and reliable method for detection of cracks or flaws not normally visible to the naked eye.

This test kit is ideal for the inspection of welds, castings, forgings etc.

The AeroTest non-destructive test kit includes a cleaner, dye penetrant and developer spray.

- The aerosol test kit provides a quick, clean, easy and non-destructive method for determining flaws and cracks in metal
- Economical technology with no need for expensive and advanced equipment
- Provides a useful quality control tool for surface preparation quality

PRODUCT DESCRIPTION

AeroTest Flaw Detector Developer is an aerosol spray white powder developer designed to draw the penetrant out of a flaw to enhance the definition. Used as part of the NDT flaw detection system to facilitate detection when used in conjunction with the AeroTest Flaw Detector System.

CHARACTERISTICS

- Highly visible white powder for strong definitions
- Detection and inspection can be carried out under natural or electric light
- Easily removed by solvent or water rinsing
- Can be used on material such as steel, stainless steel, aluminium, ceramics, plastics, carbides, brass, copper and magnesium
- Convenient and easy to use

CONTENTS

A package consisting of:

1 X AeroTest Flaw Detector Cleaner

1 X AeroTest Flaw Detector Dye Penetrant

1 X AeroTest Flaw Detector Developer

Testing

USAGE INSTRUCTIONS

- Aerosols are supplied with a lid; to start using AeroTest spray can it is necessary to remove the lid first.
- Turn the can upside down and strike the bottom of the can against the palm of your hand. Repeat this several times to loosen the ball from the pigments in the can.
- Once the ball is loose, keep the can right way up (the sediment will be at the bottom) and shake the can vigorously.
- Rotate the can in small circles to stir the pigments with the ball and continue shaking for at least 2 minutes
- Rotate can vertically and shake for at least 2 minutes

Cleaning

Clean the area to be tested using AeroTest Flaw Detector Cleaner and wipe thoroughly with tissue or lint free cloth. Ensure the surface is clean, dry and free of contaminants. Repeat if necessary and allow drying before using the Penetrant.

Apply Penetrant

Spray the test area with AeroTest Flaw Detector Dye Penetrant and allow a minimum of 10 minutes contact time. Extremely fine definitions may take up to 30 minutes

Remove Penetrant

Once the contact time has elapsed, the excess dye penetrant should be removed with a dry cloth, repeat if necessary. The remainder should be removed with a cloth pre-moistened with cleaner. Care is to be taken at this stage not to flush out the dye penetrant with cleaner as this will impair sensitivity. Repeat this procedure until surface penetrant is removed.

Develop

Apply a thin film of AeroTest Flaw Detector Developer to the test area. Too much developer will mask indications. Leave for 10 minutes to draw up the retained penetrant any flaws or cracks. Larger cracks will show immediately, minute flaws or cracks may take a few minutes to develop the best indications.

Inspection

Suspect areas should be examined under natural or electric light for signs of flaws and cracks. Cracks will show up as lines whilst porosity will appear as pin holes.

If the results are inconclusive repeat the process taking greater care when removing the excess penetrant,



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LIMITATIONS

- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Speccoats™ makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating

UNIT SIZE

Aerosols
400 ml

STORAGE

Shelf Life 12 months at 25°C – from date of manufacture

Subject to inspection thereafter. Store in dry conditions out of direct sunlight away from source of heat or ignition
Store at temperature between 5 and 35°C

IMPORTANT NOTE

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

PRECAUTIONS

For complete safety and handling information please refer to the appropriate **Safety Data Sheets** prior to using this product.

Testing