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## FLAWFINDER Developer NDT Crack Detection System

### Product Overview

FLAWFINDER Developer is an aerosol applied white powder that is designed to draw the penetrant out of a flaw to enhance the definition. It is used to facilitate detection when used in conjunction with the NDT crack detection system.

FLAWFINDER is designed to provide a fast reliable method for visual detection of cracks or flaws which would not normally be visible to the naked eye. Ideal for the inspection of welded joints, castings, forgings etc...

**A bright red indication will mark the flaw or crack.**

### Features and Benefits

- Highly visible white powder for strong definitions
- Multi-angle valve system
- Detection can be carried out under natural or electric light
- Easily removed by rinsing with water
- Can be used on most materials including steel, stainless steel, aluminium, cast iron, ceramics, plastics, carbides, brass, copper and magnesium
- Acts as an anti-glare spray when 3D scanning
- Convenient and easy to use

### Product Overview

- Shake aerosol well before use
- Apply from a distance of 15-30cm
- The storage temperature should be kept below +50°C, and the storage area should be out of direct sunlight
- Shelf life is 5 years from date of manufacture

### Typical Applications

- Threaded connections on drilling rods in industries such as crude oil, mining, public works, quarries etc.
- Engines, boilers, furnaces, generators etc.
- Gas flow or continuous electrode nozzle heads.
- Valves and fittings in the chemical and petrochemical industries.
- In the automotive industry for use on exhaust connections, cams, joints, brakes etc.
- Ideal for spraying components prior to 3D scanning when inspecting or reverse engineering.

### Specification

Meets the requirements of **ISO 3452-2**

### Pack Sizes

Pack size	Part Code
400ml	63135

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### Application Method

**Cleaning**—Clean the area to be tested with FLAWFINDER Cleaner Spray and wipe thoroughly with a tissue or lint free cloth. Ensure the surface is clean, dry and free of contaminants. Repeat if necessary. After a final wipe, allow time to dry before using FLAWFINDER Dye Penetrant.

**Apply Penetrant**—Spray the test area and allow a minimum of 10 minutes contact time. Extremely fine definitions may take up to 30minutes.

**Remove penetrant**—Once the contact time has elapsed, the excess 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 penetrant with cleaner as this will impair sensitivity. Repeat this procedure until surface penetrant is removed.

**Develop**—Shake the can well. Apply a thin film of FLAWFINDER Developer to the test area. Too much developer will mask indications. Leave for 10minutes to draw up the retained penetrant from any flaws of 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.

Property	Result
Appearance	Fine White Powder
Propellant	LPG
Solvent	Ketonic
Odour	Characteristic

Values quoted above are typical and do not constitute a specification.

### Safety Data Sheets

Safety data sheets are available for download from our website [www.rocol.com](http://www.rocol.com) or may be obtained from your usual ROCOL contact.

The information in this publication is based on our experience and reports from customers. There are many factors outside our control or knowledge which affect the use and performance of our products, for which reason it is given without responsibility.

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