



FLAW DETECTORS **RED DYE-PENETRANT FAULT FINDING SYSTEM**

FLAW DETECTORS comprise a 3 part system for quick and easy visual detection of flaws and cracks. Each set consists of a Cleaner, a Penetrant and a Developer which, when used together, help to identify problems immediately and reduce downtime.

APPLICATIONS

Suitable for use throughout industry in areas such as Automotive, Welding, Engineering, Construction, Shipbuilding, Machining and Manufacturing, the Flaw Detectors remove the need for immersion tanks or electrical detection equipment. Ideal for use during manufacture, welding, repairs and general maintenance.



PART 1

Flaw Detector Cleaner - Powerful spray to flush out soiling. Evaporates to leave surface clean and dry.



PART 2

Flaw Detector Penetrant - Highly visible red dye which penetrates into even the tiniest defect or crack.



PART 3

Flaw Detector Developer - White coating which contrasts with Penetrant to highlight the flaw.

Simple and economical in use, the Flaw Detectors can be applied directly onto the component to be tested without the need for dismantling the equipment.

METHODS OF USE

1. Clean the area to be treated with Flaw Detector Cleaner to remove oils, greases, dirt and other contamination. Leave solvent to evaporate completely (approximately 20 – 30 seconds). Wipe away any overspray with a clean, dry cloth.
2. Apply Flaw Detector Penetrant directly onto the area to be inspected. Leave on the surface for 20 – 30 minutes for the Penetrant to fully penetrate any cracks or flaws. Re-apply if the film dries out during this period. Remove as much as possible of any excess Penetrant with a clean, lint-free cloth. Remove any remaining excess Penetrant with a

cloth, moistened with Flaw Detector Cleaner. **(Do not spray Cleaner directly onto the area to be inspected).**

3. Apply a thin, even film of Flaw Detector Developer. Allow at least 10 minutes for any cracks or flaws to be highlighted.
4. Inspect the treated part in daylight or good artificial light. Any defects will be revealed by red lines or dots.

TECHNICAL DATA

Meets sulphur and halogen content limits of major military and industrial specifications

	CLEANER PART 1	PENETRANT PART 2	DEVELOPER PART 3
Appearance	: Clear, colourless liquid	Dark red liquid	Mobile white liquid
Odour	: Hydrocarbon	Hydrocarbon	Alcoholic
SG @ 25°C	: 0.73	0.85	0.88
Pressure @ 25°C	: 3 Bar	3.5 Bar	3 Bar
Discharge rate	: 1.10 g/sec	1.40 g/sec	1.20 g/sec (approx)
Solubility	: Soluble in solvents, insoluble in water	Soluble in solvents insoluble in water	Miscible with solvents and water
Flammability	: All classified as extremely flammable under CHIP Regulations		
Flashpoint	: Not applicable in sealed aerosol		
Packaging	: 400 ml aerosol each (12 per carton of each product)		

STORAGE

The product may be stored at normal ambient temperatures and has a shelf life of not less than 36 months with correct storage. Aerosols should always be stored below 50°C, away from direct heat and naked flame.

HEALTH AND SAFETY

Health and Safety sheet available separately.

TECHNICAL SERVICE

Ambersil provides a technical support service and maintains a constant programme of research and development. We are able to assist customers by specific product development to meet particular requirements.

MISREPRESENTATION ACT 1967

TRADE DESCRIPTIONS ACT 1968

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