TECHNICAL DATA







Inspection - Detection



360° Spray System for all angle use



MOD Approval

FLAW DETECTOR CLEANER 1

CLEANER FOR NON-DESTRUCTIVE TESTING

Quick drying solvent cleaner/degreaser and excess penetrant remover for the non-destructive testing of metal surfaces by liquid penetrant inspection. Many cracks in engineering materials can be deep in spite of having a very small opening width on the surface and can cause very serious defects. By normal visual inspection such cracks may be very difficult to detect, but penetrant flaw detection is an extension of the visual inspection method highlighting otherwise invisible defects. The control is carried out using 3 products: Flaw Detector Cleaner, Flaw Detector Penetrant and Flaw Detector Developer.

Flaw Detector Cleaner is a fast drying, powerful degreasing solvent blend free of 1,1,1-trichloroethane or other chlorinated solvents for the removal of dirt, grime and contaminants. Designed for the pretreatment of the surface, prior to liquid penetrant inspection and to remove all visible, colored traces of the penetrant.

It quickly dissolves grease, oil, lubricants, tar and adhesives and It's effective wash-away of contaminants and colored penetrant.

Flaw Detector Cleaner is stable, non-staining and non-corrosive, leaves no residue. Fast evaporation to minimize downtime.

ASME Code Section V

PRODUCT CODES / FILL SIZES



30288 / 400ml

APPLICATIONS

Non-destructive inspection of materials, parts, assemblies, equipment, surfaces or structures:

- Cracks, lack of fusion and open cavities in welded parts.
- Cracks and cavities caused by metal fatigue and cutting operations.
- Check of porosity or leaks in pipes, tanks, boilers, heat exchangers.
- · Discontinuities, laps, folds and cracks in castings, forgings and ceramics. · Safe on most plastics, coatings and rubbers (test prior to

TECHNICAL DATA (WITHOUT PROPELLANT)

Appearance	colorless liquid, typical odour
Specific gravity (@ 20°C)	0.716
Boiling range	55 - 120°C
Vapor density (vs air = 1)	3
Freezing point	< -30°C
Evaporation rate (vs ether = 1)	2.8
Flash point (closed cup)	< 0°C
Dynamic viscosity (@ 20°C)	0.5 mPa.s
Surface tension (@ 20°C, est.)	21 mN/m
Plastics compatibility	to be checked (*)
Non-volatiles	none
(*)Sensitive plastics (e.g. polystyrenes and polycarbonates, need to be checked,	

particularly when thermal or mechanical stress is involved.

TECHNICAL DATA



DIRECTIONS

- Do not use at ambient temperatures below 10°C.
- In liquid penetrant inspections, the test object or material is coated with a visible dye solution. The excess dye is removed from the surface and a developer is then applied. The developer acts like a blotter and draws penetrant out of the imperfections of the surface. With visible dyes, the vivid colour contrast between the penetrant and the developer makes the 'bleed-out' easy to see.

Cleaning of the surface

• The surface to be checked must be clean, degreased and dry. All soiling like rust, oil, grease, paint etc, which can mask the imperfections, must be removed. Finish the cleaning by spraying Flaw Detector Cleaner generously. If possible wipe with an absorbent cloth and allow drying thoroughly.

Penetrant application

 Shake the can of Flaw Detector Penetrant prior to use. Spray the penetrant in a light, even film on the surface, wetting all areas to be controlled. Allow to drain for 10 to 20 minutes.

Excess penetrant removal

• Remove excess of penetrant by wiping the surface using a lint-free cloth. Apply water (Flaw Detector Penetrant is water washable) until all visible, coloured traces are removed. Care must be taken that only disturbing penetrant on the surface is removed. Dry properly.

Development

 Shake the can of Flaw Detector Developer thoroughly prior to use. Spray a light, homogeneous coat of developer from a distance of about 20 cm. Avoid any excess developer to avoid masking the finest flaws.
Allow to develop for at least 7 minutes so that imperfections are visible.

Visual inspection of defects

 As time passes, the defects will appear as red spots or lines on a white background. The speed of appearance, the shape and dimensions can give information about the nature of the defects. If necessary, post-clean the controlled surface and protect against corrosion with one of Ambersil's corrosion protection products, such as Corrosion Inhibitor.

STORAGE & SHELF LIFE

The product may be stored at normal ambient temperatures and has a shelf life of not less than 6 years with correct storage. Aerosols should always be stored below 50°C, away from direct heat and naked flame.

HEALTH AND SAFETY

A separate Safety Data Sheet (SDS) according to EC Regulation 73/404/EEC and 648/2004/EC is available from Ambersil.com or via info.uk@crcind.com

MISREPRESENTATION ACT 1967

TRADE DESCRIPTIONS ACT 1968

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