



I. Product Description

CRC Weld Check™ Penetrant is a red-colored liquid penetrant for the non-destructive testing of surfaces and structures. 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. The control is carried out using 3 products: CRC Weld Check™ Cleaner & Penetrant Remover, CRC Weld Check™ Penetrant, and CRC Weld Check™ Developer. **CRC Weld Check™ Penetrant** is a water washable liquid penetrant visible with natural white light. Based on special hydrocarbons, with high boiling point, surfactants, corrosion inhibitors and dyes.

II. Applications

Non-destructive inspection of materials, parts, assemblies, equipment, surfaces or structures. Detects the following:

- Cracks, lack of fusion and open cavities in welded parts
- Cracks and cavities caused by metal fatigue and cutting operations
- Porosity or leaks in pipes, tanks, boilers, heat exchangers
- Discontinuities, laps, folds and cracks in castings, forgings and ceramics

III. Features & Benefits

- Quickly produces results
- Economical technology with no need for expensive equipment
- A sensitive and reliable test method
- Widely applicable, regardless the nature of the materials or shape of the object
- **S.D.[L.]™- Safety Data Label™**. Provides instant access to current safety information should an accident or OSHA inspection occur. Helps comply with **OSHA Hazard Communications Standard 29 CFR 1910.1200**.

IV. Physical Properties

Flash Point	>144°F	Boiling Point	356-482°F
Odor	Solvent	Freezing Point	N/D
Appearance	Red Liquid	Solubility	Water washable
Vapor Density	>1 (Air = 1)	% Solids	N/D
VOC Content (Fed)	778 g/L	VOC %	94.3
Sara Title III, Sect. 313 Chemicals	No	Specific Gravity	0.82
Prop 65	Yes		

V. Specifications and Approvals

- Complies with ASTM E165, ASME Section 5, Article 6.

VI. Typical Testing Results

	Typical Results	Specification
Sensitivity	OK	
Sulfur	<20 ppm	<=200 PPM
Chloride	23 ppm	<=200 PPM
Penetrant Washability	OK	

VII. Directions

Directions for the fast, non-destructive testing of welds, surface faults and cracks:

Read entire label before using this product.

1. **Do not apply while equipment is energized.**
2. Clean the surface to be treated with CRC Weld Check™ Cleaner & Penetrant Remover.
3. Shake can of CRC Weld Check™ Penetrant very well and spray a light even coat on the test surface.
4. Allow to remain on the test surface for 10 to 20 minutes.
5. Remove Weld Check™ Penetrant on the surface by wiping with a cloth moistened by Weld Check™ Cleaner & Penetrant Remover.
6. Shake can of CRC Weld Check™ Developer very well and spray a light even coat on the test surface.
7. Allow it to develop for 5 to 15 minutes.
8. Inspect the surface for possible defects.

VIII. Package Description

Part Number	Container Size
03106	16 oz. Aerosol

IX. Disposal

Disposal requirements vary by state and local jurisdiction. All used and unused product should be disposed of in conformance with local, state and federal regulations.

X. Special Use Warnings

Aerosol Cans

Do not puncture, incinerate or store above 120°F. Exposure to high temperatures may cause can to burst. Do not place in direct sunlight or near any heat source. Aerosol cans will conduct electricity. Keep away from all live electrical sources including battery terminals, solenoids, electrical panels and other electronic components. Failure to observe this warning may result in serious injury from flash fire and/or electrical shock.

General

Use only in well-ventilated area. Ventilation may be improved by opening a window or door or providing mechanical assistance. Avoid continuous breathing of vapor and spray mist. Avoid contact with skin and eyes. If ventilation is not adequate, respiratory protection should be worn. For more information regarding short term and long term exposure, review this product's Material Safety Data Sheet.

DISCLAIMER: This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. All products should be tested for suitability on a particular application prior to actual use. CRC Industries, Inc. makes no representations or warranties of any kind concerning this data.