



# MEGA CHECK Penetrant

Aerosol 450ml/can, 20cans/Box



Classification : Type 2, Method C

Liquid penetrant classification per AMS 2644

**Penetrant Types:**

- ▶ Type 1 – fluorescent dye
- ▶ Type 2 – visible dye

**Penetrant Sensitivity Levels:**

Sensitivity level(fluorescent only)

- ▶ ½–ultra low
- ▶ 1–low
- ▶ 2–medium
- ▶ 3–high
- ▶ 4–ultra high

**Penetrant Methods:**

- ▶ Method A–water washable
- ▶ Method B–post emulsifiable, lipophilic
- ▶ Method C–solvent removable
- ▶ Method D–post emulsifiable, hydrophilic

**Developer Forms:**

- ▶ Form A–dry powder
- ▶ Form B–water soluble
- ▶ Form C–water suspendible
- ▶ Form D–nonaqueous Type 1 fluorescent(solvent based)
- ▶ Form E–nonaqueous Type 2 visible dye(solvent based)

## Features

It makes possible to show minute defect with red color that is invisible to the naked eye. Therefore you can check the defective area exactly. Its penetration ability is excellent and it is suitable for checking the uneven surface or the crack on the surface. Since it does not contain the corrosive raw material, it is very safe to use even for aluminum alloy and magnesium alloy which easily get corroded. Since it applied the type of One Touch Aerosol, it is very easy to use and very convenient to carry with.

## Properties

Division	Unit	Properties
Color	–	Red
Density	g/ml	0.91
Temperature limit	°C	40(Max)
Spray pressure(25 °C)	kg/cm <sup>2</sup>	5.0

## Uses

It can be used for nonferrous materials like porcelain, glass, synthetic resin as well as metal, iron, nonferrous



metal, magnetic substance and nonmagnetic substance.

Casting parts ----- pin hole, scalding flaw, shrinkage flaw.

forging parts ----- forging flaw.

Weld ----- crack, failed joining.

Metal materials ----- grinding flaw, heat flaw, cutting tool crack.

Leakage check ----- tank, boiler, pipe etc.

## How to use

Shake the Can very well before using.

Spray it evenly within the distance of 20~30cm.

※ For more detailed instructions, please refer to MEGA Check Set instruction manual.



## Penetration/Penetration Time

Normally it takes about 2~5 minutes.

When working at outside area during the winter season, it takes about 10 minutes.

Suitable temperature for the part that needs to be tested is 10℃~40℃

## Standard Temperature

Use it at the temperature within the range of 4℃~50℃.

## Related Specification

AMS-2644, AECL, ASME B&PV Code, Sec. V, ASTM E1417, MIL-STD 2132, ASTM E165, MIL-STD 271

## Cautions

Do not spray directly onto the face or food. Do not inhale or intake.

Keep it out of the reach of children.

As this is an inflammable product using high pressure gas, keep the following cautions carefully.

1. Do not spray directly toward open flame.
2. Do not use it near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.





3. Do not use it in an environment where there are explosive or inflammable materials.
4. Store the product in places where the temperature does not exceed 40°C.
5. After used in enclosed areas, be sure to ventilate.
6. Do not throw into a fire.
7. After use, throw it away after checking and removal the remaining gas in the container.
8. Do not store it in enclosed area.
9. Below 5°C, injection power may be poor.

※ This information can be amended without any notice according to new knowledge and test result. If there are any questions, please contact us or the store where you purchased it.

