



RED-MARK RF-1S Solvent based Developer

RF-1S is a non-hazardous, solvent-based quick-drying developer. This type of developer forms a white coating which draws out penetrant from defects through capillary action, creating an enlarged defect indication pattern with a red (penetrant) and white (developer) contrast.

By using a new fluorine-based solvent, RF-1S is classified as a non-hazardous developer that does not fall under the Fire Service Act. It is used for weld quality inspections, maintenance and quality checks, and periodic inspections. It corresponds to JIS Z 2343 Type II (Dye), Form e (Organic Solvent-Based for Type II).

■ FEATURES

- Available in an easy-to-use and portable aerosol type.
- Classified as a non-hazardous substance under the Fire Service Act.
- Environmentally friendly fluorine-based solvent (HFO, hydro-fluoro-olefin) with zero-ozone depletion potential.
- The aerosol type uses an environmentally friendly with fluoro injection-gas.
- Moderately fast drying.
- Forms a highly concealing white film.

■ PROPERTIES

Color	White
Odor	Mild Solvent Odor
Flash Point	—
Fire Service Act	Non-Hazardous

■ SPECIFICATION CONFORMANCE

- EN-ISO 3452-2
- JIS Z 2343-2

* Please contact us regarding compliance to the latest standards and standards not listed in this TDS.

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APPLICATIONS

- Welds
- Castings
- Forgings
- Pressure vessels
- General metals

SPECIFICATION

How to Use →



NDT Method	Penetrant testing (PT) / Solvent based developer
Type	Type II (Dye)
Method	Form e (Organic Solvent-Based for Type II)
Storage Temperature	Can : 32°F~104°F (0°C~40°C) / Aerosol : less than 95°F (35°C)
Usage Temperature	14°F~122°F / -10°C ~ +50°C
Ozone Depletion Potential	Solvent : ≒ 0
Quality assurance period	3 years from the manufacturing date for both cans and aerosols
Disposal	Aerosol: After using up the contents, press the button outside in a fire-free area until the spray sound disappears, vent the gas completely. Can : Dispose empty can in a safe manner in accordance with local/national regulations.

CONTAINER

Can Type: 3.8L and 18L Can

Aerosol Type: 450 Aerosol

SERVICE/CONTACT

Please be sure to read the SDS (Safety Data Sheet) before use.

Please download the SDS from our website or contact our nearest sales office or distributor.

For other inquiries about our products, please contact our nearest sales office.

Contact us →

