

## RED-MARK R-1SH(NT) Developer for High Temperatures

R-1SH(NT) is a high-temperature developer that is part of a series with a proven track record in crack detection, especially for inspections immediately after welding. This developer forms a highly concealing white coating that extracts penetrant fluid from flaws through capillary action, creating enlarged flaw indications with a sharp red-and-white contrast. For optimal performance, it is recommended to use R-1SH(NT) in combination with the high-temperature series penetrant R-1AH(NT) and cleaner/remover R-1MH(NT).

R-1SH(NT) is widely used for weld quality inspections, maintenance, quality checks, and periodic inspections. It conforms to JIS Z 2343 as Type II (dye), Form e (organic solvent-based for Type II). When used as part of the high-temperature family, it is classified under JIS Z 2343-5 as Type II (dye), Method C (solvent removable), Class 2 (remover: non-halogenated organic solvent), Form e (quick-drying developer for Type II), Level 2, and Temperature F (operating range: 194-392°F/ 90-200°C).

### ■ FEATURES

- Enables crack detection at high temperatures up to 392°F/200°C when used as part of the high-temperature family.
- Forms a white coating with high absorption power for penetrant liquid.
- Available in a portable, easy-to-use aerosol type for improved convenience and usability.

### ■ PROPERTIES

Color	White suspension
Odor	Alcohol Odor
Flash point	167°F/75°C
Fire Service Act	Class 4 and Class 3 petroleum (Non-water-soluble)

### ■ 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

### 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 104°F(40°C)
Usage Temperature	194°F~392°F/90°C~200°C
Usage cover	Aerosol: about 4.2 m <sup>2</sup>
Quality assurance period	3 years from the manufacturing date
Disposal	Aerosols: After using up the contents, press the button outside in a fire-free area until the spray sound disappears, vent the gas completely. Cans: Dispose empty can in a safe manner in accordance with local/national regulations.

### CONTAINER

Can type: 3.8L and 18L Can

Aerosol type: 450 type 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 →

