

RED-MARK R-1A(NT)/1 AMS2644 Qualified Solvent-Removable Dye

R-1A(NT)/1 is an AMS2644 qualified solvent-removable dye penetrant. Dye penetrant testing detects surface-breaking defects in three steps using penetrants, cleaning/removing, and developers.

This product enables reliable defect detection with clear red and white contrast indications on all inspection objects, excluding plastics and porous materials, making it ideal for preventive maintenance and quality inspections during manufacturing. It is used for weld quality checks, maintenance and quality inspections, leak detection, and aircraft component testing. For use, it is recommended to combine it with other AMS2644 qualified products, such as R-1M(NT)/1 cleaner/remover and R-1S(NT)/1 developer.

R-1A(NT)/1 is listed in QPL/QPD AMS2644 as Type II (dye) and Method C (solvent-removable) and complies with JIS Z 2343 for Type II (dye) and Method C (solvent-removable).

■ FEATURES

- Detects bright red defect indications with high color clarity in simple steps.
- Qualified by the U.S. Air Force under AMS standards, making it applicable to a wide range of materials, including aviation-related uses.
- Excellent wettability ensures quick coverage of test surfaces.
- Also available in an aerosol type for superior portability and usability.

■ PROPERTIES

Color	Dark red liquid
Oder	Petrol oder
Flash Point	> 200°F / > 93°C
Viscosity	3.1 cSt
Fire Service Act	Class 4 and Class 3 Petroleum (non-water-soluble)



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SPECIFICATION CONFORMANCE

- EN-ISO 3452-2
- JIS Z 2343-2
- AMS 2644
- ASTM E 1417
- ASME B&PV Code, Sec.V

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

APPLICATIONS

- Welds
- Castings
- Forgings
- Pressure Vessels
- General metal works
- Aerospace alloys

SPECIFICATION

How to use →



NDT Method	Penetrant Testing (PT) / Solvent-Removable Dye Penetrant
Type	Type II (Dye)
Method	Method C (Solvent-Removable)
Sensitivity Level	JIS Z 2343-2 Sensitivity Level 2
Storage Temperature	Can: 40°F~104°F(5°C~40°C)/ Aerosol: less than 104°F(40°C)
Usage Temperature	40°F~125°F/5°C~52°C
Quality assurance period	3 years from the manufacturing date
Usage cover	Brushing 1L : about 35 m ² / Aerosol : about 12 m ²
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. Cans: Dispose empty can in a safe manner in accordance with local/national regulations.



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■ CONTAINER

Can Type: 3.8 L and 18 L Can, 200 L drum

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 →

