

NEO-GLO F-4A-B/3 AMS2644 Qualified Water washable Penetrant

F-4A-B/3 is a medium-sensitivity, water-washable fluorescent penetrant. Fluorescent penetrant inspection (FPI) is a method for detecting surface-opening defects with ease by using ultraviolet (UV) light emitted by a UV-A light source. It enables the detection of defect indications with excellent visibility on forged parts, castings, machined components, and more. F-4A-B/3 is a versatile penetrant that can be used across a wide range of applications, inspection processes, materials, and defect types. When used in combination with F-5D/1 dry developer, F-4W-SP/1 water-suspendible developer, or F-4S(NT)/1 quick-drying developer, the visibility and detectability of defect indications can be significantly enhanced.

F-4A-B/3 is listed in QPL/QPD AMS2644 as Type I (fluorescent), Method A, C (water-washable, solvent-removable), and sensitivity level 2. It is also approved by Pratt & Whitney. Furthermore, it corresponds to JIS Z 2343 as Type I (fluorescent), Method A, C (water-washable, solvent-removable), and sensitivity level 2.

■ FEATURES

- Qualified by the U.S. Air Force under AMS specifications and approved Pratt & Whitney, enabling application to a wide range of materials, including those used in aerospace-related industries.
- Excellent visibility of defect indications with low background.
- An environmentally friendly penetrant that complies with RoHS2 regulation and is free of substances of very high concern (SVHC) under the European REACH regulations.

■ PROPERTIES

Color	Yellow-green
Odor	Petrol Odor
Flash Point	> 200°F / > 93°C
Viscosity	10.2 cSt
Fire Service Act	Class 4 and class 3 petroleum (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
- Pratt & Whitney PMC 4350

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

APPLICATIONS

- Machined components
- Castings
- Forgings
- Aerospace alloys
- Automatic inspection line
- Jet engine components
- Automatic inspection line

SPECIFICATION

NDT Method	Penetrant Testing(PT) / Water washable fluorescent penetrant
Type	Type I (Fluorescent)
Method	A、 C (Water Washable, Solvent Removable)
Sensitivity Level	AMS 2644 Sensitivity level 2 / JIS Z 2343-2 Sensitivity level 2
Storage Temperature	40°F~104°F/5°C~40°C
Usage Temperature	40°F~125°F/5°C~52°C
Quality assurance period	3 years from the date of manufacture
Disposal	Dispose empty can in a safe manner in accordance with local/national regulations



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■ CONTAINER

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

■ 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 →

