

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

F-4A-E/3 is an ultra-high-sensitivity, water-washable fluorescent penetrant. It has an extensive track record in inspecting critical components where safety is paramount, such as titanium turbine blades, high-stress parts, and precision castings, allowing for the clear detection of defects. It provides the highest sensitivity among penetrant testing (PT) methods, enabling reliable and accurate defect detection.

With excellent washability, F-4A-E/3 enables inspections with reduced water usage, helping users lower inspection costs while maintaining highly reliable defect detection. 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 further enhanced.

F-4A-E/3 is listed in QPL/QPD AMS2644 as Type I (fluorescent), Method A, C (water-washable, solvent-removable), and sensitivity level 4. It also corresponds to JIS Z 2343 as Type I (fluorescent), Method A, C (water-washable, solvent-removable), and sensitivity level 4.

### ■ FEATURES

- Qualified by the U.S. Air Force under AMS specifications, making it applicable to a wide range of materials, including aerospace-related components.
- Excellent water-washability.
- 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	12.9 cSt
Fire Service Act	Class 4 and class 3 petroleum (non-water-soluble)

### ■ 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.



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### ■ APPLICATIONS

- Machined parts
- High-stress components
- Precision castings
- Precision forgings
- Aircraft components
- Aircraft engine components
- Automated inspection lines
- Titanium components
- Critical components requiring high safety

※When using PVC piping for wastewater drainage with this product, there is a risk of pipe breakage. Please use metal piping instead.

### ■ 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 4 / JIS Z 2343-2 Sensitivity level 4
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

### ■ CONTAINER

Can Type: 3.8L and 18L can, 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 →

