

NEO-GLO F-6A/3 AMS2644 Qualified Post Emulsifiable Penetrant

F-6A/3 is a high-sensitivity post-emulsifiable fluorescent penetrant. Post-emulsifiable testing involves removing excess penetrant using either oil-based emulsifier F-5E-SP/3 (Method B) or water-based emulsifier F-6E-W/3 (Method D). By controlling the inspection conditions, over-washing, which can lead to missed indications, is prevented, enabling highly reliable defect detection. Due to its high detectability, F-6A/3 is widely used for identifying micro-defects, such as those found in jet engines.

Using F-5D/1 dry developer, F-4W-SP/1 water-suspendible developer, or F-4S(NT)/1 quick-drying developer enhances the visibility and detectability of flaw indications during inspection.

F-6A/3 is listed in QPL/QPD AMS2644 as Type I (fluorescent), Method B, C, D (oil-based emulsifier, solvent removal, water-based emulsifier), with sensitivity Level 3. It is also approved by Pratt & Whitney. Furthermore, it corresponds to JIS Z 2343 as Type I (fluorescent), Method B, C, D (oil-based emulsifier, solvent removal, water-based emulsifier), sensitivity Level 3.

■ FEATURES

- Qualified by the U.S. Air Force under AMS specifications and approved by Pratt & Whitney, making it suitable for a wide range of materials, including aerospace applications.
- An environmentally friendly penetrant that complies with RoHS2 regulation.

■ PROPERTIES

Color	Yellow Green
Odor	Petrol odor
Flash Point	> 200°F / > 93°C
Viscosity	6.9 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
- Pratt & Whitney PMC 4353

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

APPLICATIONS

- Machined parts
- Precision castings / forgings
- Aerospace alloys
- Jet engine components
- Titanium
- Aluminum
- Inconel (Nickel)

※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) / post emulsify fluorescent penetrant
Type	Type I (Fluorescent)
Method	B、C、D(lipophilic emulsifier, Solvent Removable, Hydrophilic emulsifier)
Sensitivity Level	AMS 2644 Sensitivity level 3 / JIS Z 2343-2 Sensitivity level 3
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
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 →

