

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

F-6A-SP/3 is an ultra-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).

This penetrant has a proven track record for critical components where safety is paramount, offering clear defect detection even for titanium turbine blades, high-stress parts, and precision castings. Among penetrant testing (PT), it is the most sensitive and reliable method for crack detection. Using F-5D/1 dry developer, F-4W-SP/1 water-suspendible developer, or F-4S(NT)/1 quick-drying developer further enhances the visibility and detectability of flaw indications.

F-6A-SP/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 4. It is also approved by Pratt & Whitney and corresponds to JIS Z 2343 as Type I (fluorescent), Method B, C, D, sensitivity Level 4.

■ 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	12.7 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 4354

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

APPLICATIONS

- Machined components
- High stress components
- Precision castings / forgings
- Aerospace alloys
- Jet engine components
- Titanium
- Aluminum
- Inconel (Nickel)
- Safety critical components

※If PVC piping is used for cleaning wastewater discharge from this product, there is a risk of cracking. 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 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 manufacturing date
Disposal	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 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 →

