

NEO-GLO F-5L-SP/3 AMS2644 Qualified Post Emulsifiable Penetrant

F-5L-SP/3 is a medium-sensitivity, post-emulsifiable fluorescent penetrant. Fluorescent penetrant inspection (FPI) is a method for detecting surface-opening defects by exposing them to ultraviolet (UV) light from a UV-A source. The inspection involves using either the oil-based emulsifier F-5E-SP/3 (Method B) or the water-based emulsifier F-6E-W/3 (Method D) to remove excess penetrant. When combined 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-5L-SP/3 is listed in QPL/QPD AMS2644 as Type I (fluorescent), Method B, C, D (oil-based emulsifier, solvent-removable, water-based emulsifier), and sensitivity level 2. It is also approved by Pratt & Whitney. Additionally, it corresponds to JIS Z 2343 as Type I (fluorescent), Method B, C, D (oil-based emulsifier, solvent-removable, water-based emulsifier), and sensitivity level 2.

■ FEATURES

- Qualified by the U.S. Air Force under AMS specifications and approved by Pratt & Whitney, enabling application to a wide range of materials, including aerospace-related components.
- Effective by easy pre-washing reduces inspection time and water usage.
- An environmentally friendly penetrant that complies with the 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	7.1 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
- Pratt & Whitney PMC 4352

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

APPLICATIONS

- Machined parts
- Welded parts
- Castings
- Forgings
- Aircraft components
- Automated inspection lines

※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 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 →

