



NEO-GLO F-5E-SP/3 AMS2644 Qualified Lipophilic emulsifier

NEO-GLO F-5E-SP/3 is an oil-based emulsifier. Fluorescent penetrant testing detects surface-opening defects by exposing them to ultraviolet light (UV-A) using a black light source. Post-emulsifiable testing with an oil-based emulsifier reduces residual fluorescence, enabling clear and visible defect indications while allowing the detection of fine defects through controlled emulsification time.

When using this product, combining it with a fluorescent penetrant suitable for the required sensitivity level and applying F-5D/1 dry developer or F-4S(NT)/1 quick-drying developer enhances the visibility and detectability of flaw indications.

F-5E-SP/3 is listed in QPL/QPD AMS2644 as an oil-based emulsifier under Method B and corresponds to Type I (fluorescent) and Method B (oil-based emulsifier) in accordance with JIS Z 2343.

■ Features

- Qualified by AMS standards and the U.S. Air Force, suitable for a wide range of materials, including aerospace applications.
- An environmentally friendly emulsifier that complies with RoHS2 and does not contain substances of very high concern (SVHC) under European REACH regulations.
- Excellent visibility of defect indications with low background.

■ PROPERTIES

Color	Red transparent oily liquid
Odor	Glycol odor
Flash Point	> 200°F / > 93°C
Viscosity	26.4 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

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

APPLICATIONS

- Welds
- Castings
- Aerospace alloys
- Automated inspection lines

SPECIFICATION

NDT Method	Penetrant Testing (PT) / Lipophilic emulsifier
Type	Type I (Fluorescent)
Method	B (Lipophilic)
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 cans, 200 L drum



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■ 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 →

