

NEO-GLO F-6E-W/3 AMS2644 Qualified Hydrophilic emulsifier

NEO-GLO F-6E-W/3 is a water-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 a water-based emulsifier reduces residual fluorescence and enables 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-6E-W/3 is listed in QPL/QPD AMS2644 as a Method D / 20% concentration water-based emulsifier in combination with penetrants and is also approved by Pratt & Whitney. It corresponds to Type I (fluorescent), Method D (water-based emulsifier) in accordance with JIS Z 2343.

■ 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 emulsifier that complies with RoHS2 and does not contain substances of very high concern (SVHC) under European REACH regulations.

■ PROPERTIES

| | |
|------------------|--|
| Color | Red transparent oily liquid |
| Odor | Glycol odor |
| Flash Point | > 200°F / > 93°C |
| Viscosity | 27.65 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
- Pratt & Whitney PMC 4355

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

APPLICATIONS

- Machined parts
- High-stress components
- Precision castings
- Precision forgings
- Aircraft components
- Aircraft engine parts
- 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) / Hydrophilic emulsifier |
|--------------------------|---|
| Type | Type I (Fluorescent) |
| Method | D (Hydrophilic) |
| 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: 3.8 L and 18 L 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 →

