



**CERTIFICATION**  
**FP-97A(M)**  
**BATCH # 21124**

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
FP-97A(M)	Fluorescent Penetrant	1	B, C, & D	4	N/A	N/A	13-Aug-2021

We hereby certify that this batch of inspection material when tested following manufacture meets the following:

*Certificamos que este lote de material de inspección cumple con los siguientes requisitos cuando es probado después de la fabricación:*

- SAE AMS 2644H and on the Qualified Products List (test reference: AFWAL/MLS 86-88, AFRL/MLS 98-165).
- Is not water soluble
- ISO/FDIS 3452
- Boeing BSS 7039 & BAC 20-20-02
- Safran IN-5000c; Snecma sensibilité S4.
- Pratt & Whitney FPM PMC #4354-7 AN
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 18
- Rolls-Royce RPS-702-7; CSS 232; OMat # 652E, RRP 58003C
- AMS 2647E, ASTM E165/E165M-18 and ASTM E1417/E1417M-21
- General Electric Aircraft Engines 70-32-02 & Gas Turbines LM6000 PC
- ASME Boiler & Pressure Vessel Code 2019, Section V, Article 6, appendix II-J-641 & II-J-642
- 10 CFR part 21 applies.

PO# \_\_\_\_\_

Is free of all known Ozone depleting substances and mercury contamination and was not made in any mercury bearing equipment. Does not contain polychlorinated biphenyl (PCB), nonylphenol ethoxylates (NPE), or RoHS banned substances.

*Esta libre de todas sustancias degradantes del ozono, de contaminación de mercurio, y no fue fabricado usando equipo conteniendo mercurio. No contiene polychlorinated biphenyl (PCB), nonylphenol ethoxylates (NPE), o RoHS sustancias prohibidas.*

- Shelf life is 5 years from date of batch approval.  
*Vida útil de garantía son 5 años desde la fecha del "approval date".*
- Batch number is on bulk labels or bottom of aerosol cans.

*Numeros de lote se encuentran en las etiquetas de los botes a granel o en el fondo de los botes de aerosol.*

QUALITY ASSURANCE TESTS	REQUIREMENTS	BATCH RESULTS
Appearance:	MLC: Clear green liquid, no sediment.	Pass
Density:	MLC: 924 g/L - 965 g/L @ 21.1°C (70°F)	965 g/L
Flash Point: ASTM D93, AMS-2644 ¶ 3.3.3, PMC 4354-7	PMC 4354-7: > 93.3°C (> 200 °F)	262°F
Viscosity: ASTM D-445, AMS-2644 ¶ 3.3.4, PMC 4354-7	PMC 4354-7: 6.8 - 9.2 mm <sup>2</sup> /s @ 37.7°C (100°F)	9.1 mm <sup>2</sup> /s
Fluorescent Brightness: AMS-2644 ¶ 3.3.8.3.3; per ASTM E-1135-19	AMS-2644: ≥ 95 % of level 4 std. FP-4PE	105 %
Removability: AMS-2644 ¶ 3.3.8.6	MLC: Equal to MLC Level 4 Standard	Pass
Sulfur Content: per ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 4354-7: <1000 ppm (0.1%)	<200 ppm
Chloride Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 4354-7: < 400 ppm (0.04%)	<200 ppm
Fluoride Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	PMC 4354-7: ≤ 50 ppm (0.005 %)	<50 ppm
Total Halogen Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	ISO 3452: ≤ 200 ppm (0.02 %)	<200 ppm
Sodium Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4, MCL M-504	PMC 4354-7: ≤ 100 ppm (0.01 %)	<100 ppm

**MET-L-CHEK QUALITY ASSURANCE**

**BATCH TESTED BY:**

**DENNIS MASON**  
QC CHEMIST

**BATCH APPROVED BY:**

**JUSTINE FORD**  
PLANT CHEMIST



Met-L-Chek Company, 2910 Harvard Avenue | Cleveland, OH 44105

T: (216) 441-4900 | F: (216) 441-1377

E: [info@met-l-chek.com](mailto:info@met-l-chek.com) W: [www.met-l-chek.com](http://www.met-l-chek.com)