

## CERTIFICATION FP-921

## **BATCH # 21228**

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
FP-921	Fluorescent Penetrant	I	A & C	1	N/A	N/A	10-Feb-2022

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 despues de la fabricación:

- SAE AMS-2644H and on the Qualifed Products List (test reference: AFRL/MLS 00-105, AFWAL/MLS 00-105).
- ISO/FDIS 3452
- Safran IN-5000c
- Boeing BSS 7039 & BAC 20-20-02
- Rolls-Royce RPS-702-7, CSS-232, RRP 58003C
- General Electric Aircraft Engines 70-32-02 & Gas Turbines LM6000 PC
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 18 & T9074-AS-G1B-010/271 Rev. 1 2014
- AMS-2647G, ASTM E1209-18, ASTM E165/E165M-18, ASTM E1417/E1417M-21
- Pratt & Whitney FPM PMC #4360 Rev Y, and FPM code 9, change G dated 30 June 2015
- ASME Boiler & Pressure Vessel Code 2019 Section V, Article 6, appendix II-¶-641& II-¶-642
- 10CFR part 21 applies

•	Shelf life is 5 years from date of batch approval.
	Vida útil de garantia 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.

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.

QUALITY ASSURANCE TESTS	REQUIREMENTS	BATCH RESULTS
Appearance: PMC 4350	PMC 4350: Clear, no haze, sediment or layering.	Pass
Density:	MLC:- 885 g/L - 912g/L @ 21.1°C(70°F)	911 g/L
Flash Point: ASTM D-93: AMS-2644 ¶ 3.3.3, PMC 4350	PMC 4350: > 93.3°C (> 200 °F)	232 °F
Viscosity: ASTM D-445, AMS-2644 ¶ 3.3.4, PMC 4350	PMC 4350: 6.8 - 9.2 mm2/s @ 37.7°C (100°F)	$8.7 \text{ mm}^2/\text{s}$
Fluorescent Brightness: ASTM E-1135-19; AMS-2644 ¶ 3.3.8.3.3	AMS 2644: ≥ 65 % of level 4 std. FP-4PE	67 %
Water Tolerance AMS-2644 ¶ 3.3.8.4, IISO 3452-2:2006(E) ¶ 7.10	AMS 2644: ≥ 5 %	9.5 %
Removability: AMS-2644 ¶ 3.3.8.6	MLC: Equal to MLC Level 1 Standard	Pass
Water Content, ASTM E-1417/E1417M-21, Annex A1 (Karl Fischer), MCL Q-33	PMC 4350: < 1 %	0.2 %
Sulfur Content: per ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 4350: <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 4350: < 400 ppm (0.04%)	< 200 ppm
Fluoride Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	PMC 4350: ≤ 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 A4, MCL M-504	PMC 4350:- $\leq$ 100 ppm (0.01 %)	< 100 ppm

## MET-L-CHEK QUALITY ASSURANCE

**BATCH TESTED BY:** 

**BATCH APPROVED BY:** 

**DENNIS MASON**QC CHEMIST

JUSTINE FORD

PLANT CHEMIST

ChemStewards\*
THE ROAD TO CONTINUOUS IMPROVEMENT

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