



CERTIFICATION

FP-922

BATCH # 19002

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
FP-922	Fluorescent Penetrant	I	A & C	2	NA	NA	31-Mar-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: AFRL/MLS 03-084, AFWAL/MLS 03-084).
- 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 17, T9074-AS-G1B-010/271 Rev. 1 2014
- AMS-2647F, ASTM E1209-19, ASTM E165/E165M-18, ASTM E1417/E1417M-16
- Pratt & Whitney FPM PMC #4350-13
- 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 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.

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.

QUALITY ASSURANCE TESTS	REQUIREMENTS	BATCH RESULTS
Appearance: PMC 4350-13	PMC 4351: Clear, no haze, sediment or layering.	Pass
Density:	MLC: 889 g/L - 913 g/L @ 21.1°C (70°F)	913 g/L
Flash Point: ASTM D-93: AMS-2644 ¶ 3.3.3; PMC 4350-13	PMC 4351: > 93.3°C (> 200 °F)	230 °F
Viscosity: ASTM D-445, AMS-2644 ¶ 3.3.4; PMC 4350-13	PMC 4350-13: 6.9 - 9.4 mm²/s @ 37.7°C (100°F)	7.3 mm²/s
Fluorescent Brightness: ASTM E-1135-19; AMS-2644 ¶ 3.3.8.3.3	AMS 2644: ≥ 80 % of level 4 std. FP-4PE	87 %
Water Tolerance AMS-2644 ¶ 3.3.8.5, IISO 3452-2:2006(E) ¶ 7.10	AMS 2644: ≥ 5 %	10.3 %
Removability: AMS-2644 ¶ 3.3.8.6	MLC: Equal to MLC Level 2 Standard	Pass
Water Content, ASTM E-1417/E1417M-16, Annex A1 (Karl Fischer), MCL Q-33	PMC 4350-13: < 1 %	0.3 %
Sulfur Content: per ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 3451: <1000 ppm (0.1%)	< 200 ppm
Chloride Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 3451: < 400 ppm (0.04%)	< 200 ppm
Fluoride Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4	PMC 4351: ≤ 50 ppm (0.005 %)	< 50 ppm
Total Halogen Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4	ISO 3452: ≤ 200 ppm (0.02 %)	< 200 ppm
Sodium Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4, MCL M-504	PMC 4351: ≤ 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



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