



CERTIFICATION
FP-93A(M)
BATCH # 15277

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
FP-93A(M)	Fluorescent Penetrant	1	B, C, & D	2	N/A	N/A	2-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 inspeccion cumple con los siguientes requisitos cuando es probado despues de la fabricacion:

- 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 S3
- Pratt & Whitney FPM PMC #4352-7 Rev. AG
- Rolls-Royce RPS-702-7; CSS 232; OMat # 651D, RRP 58003C
- AMS 2647F, ASTM E165/E165M-18, ASTM E-1417/E1417M-16
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 17 & T9074-AS-G1B-010/271
- General Electric Aircraft Engines 70-32-02 & Gas Turbines LM6000 PC
- ASME Boiler & Pressure Vessel Code 2019, Section V, Article 6, appendix II-¶-641& II-¶-642
- 10 CFR 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".

PO# _____

- 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:	MLC: Clear green liquid, no sediment.	Pass
Density:	MLC: 894 g/L - 925 g/L @ 21.1°C(70°F)	921 g/L
Flash Point: ASTM D93, AMS-2644 ¶ 3.3.3, PMC 4352-7	PMC 4352-7: > 93.3°C (> 200 °F)	316 °F
Viscosity: ASTM D-445, AMS-2644 ¶ 3.3.4, PMC 4352-7	PMC 4352-7: 5.0 - 6.7 mm ² /s @ 37.7°C (100°F)	5.9 mm ² /s
Fluorescent Brightness: AMS-2644 ¶ 3.3.8.3 per ASTM E-1135-19	AMS-2644: ≥ 80 % of level 4 std. FP-4PE	93 %
Removability: AMS-2644 ¶ 3.3.8.6	MLC: Equal to MLC Level 2 Standard	Pass
Sulfur Content: per ASTM E-165/E165M-18 ¶ 9.1.2 - Annex 4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 4352-7: <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 4352-7: < 400 ppm (0.04%)	< 200 ppm
Fluoride Content: ASTM E-165/E165M-18 ¶ 9.1.2 - Annex 4	PMC 4353: ≤ 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 4353:- ≤ 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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