



CERTIFICATION
FP-93A(M)
BATCH #18187

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
FP-93A(M)	Fluorescent Penetrant	1	B, C, & D	2	N/A	N/A	21-Aug-2020

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:

- Certified to SAE AMS 2644G and on the Qualified Parts List (test reference: AFWAL/MLS 86-88, AFRL/MLS 98-165).
- ISO/FDIS 3452
- Boeing BSS 7039 & BAC 20-20-02
- Safran In-5000c: Snecma sensibilité S3
- Pratt & Whitney FPM PMC #4353-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 2017, Section V, Article 6, appendix II-¶641& II-¶642
- 10 CFR part 21 applies.

- Warranty shelf life is 5 years from date of batch approval.

PO# _____

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.

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)	920 g/L
Flash Point: AMS-2644G ¶ 3.3.3; PMC 4353	PMC 4353: > 93.3°C (> 200 °F)	> 200°F
Viscosity: ASTM D-445, AMS-2644G ¶ 3.3.4; PMC 4353	PMC 4353: 5.0 - 6.7 mm ² /s @ 37.7°C (100°F)	5.9 mm ² /s
Fluorescent Brightness: AMS-2644G ¶ 3.3.8.3.3; per ASTM E-1135-19	AMS-2644F: ≥ 80 % of level 4 std. FP-4PE	95.6%
Removability: AMS-2644G ¶ 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 4353: <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 4353: < 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:

RICK VALDEZ
LAB TECHNICIAN

BATCH APPROVED BY:

PETER PELAYO
QUALITY MANAGER
ASNT/NAS 410 LEVEL 3

Rev. 9/18



Met-L-Chek Company, 1639 Euclid St. Santa Monica, CA 90404, U.S.A.

P: 310-450-1111 F: 310-452-4046 E: info@met-l-chek.com W: www.met-l-chek.com