



CERTIFICATION
D-70
BATCH # 20491

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
D-70	Nonaqueous Developer	I & II	A, B, C, & D	2*	d & e	2 - non halogenated	29-Apr-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 despues de la fabricación:

- SAE AMS 2644H and on the Qualified Products List (test reference: AFWAL/MLS 86-88).
- Flowserve.
- Velan PS-008, Rev. 10
- Boeing BSS 7039 & BAC 20-20-02
- ISO/FDIS 3452-2006, and EN 571-3*
- Pratt & Whitney FPM PMC #4357-AG
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 17
- Safran IN-5000c; Snecma sensibilité S2, S3, & S4
- RCC-M edition 2000, Section V-F, sub-section F6423 ¶ 3
- Rolls-Royce CSS 232, RRP 58003C (aerosol only, M250-C20) B
- General Electric Gas Turbines LM6000 PC & Aircraft Engines 70-32-02
- AMS 2647F, ASTM E-165/E165M-18, ASTM E-1417/E1417M-16, ASTM E1418-16
- MIL-STD-2132 ¶ 7.1.3, & T9074-AS-G1B-010/271 supercedes MIL-STD-271(SH) ¶5.6.1(93)
- ASME Boiler & Pressure Vessel Code 2019, Section V, Article 6, appendix II-¶641 & II-¶642
- 10 CFR part 21 applies.

PO# _____

- 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.

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:	Milky liquid, light white sediment, on standing	Pass
Fluorescence: per AMS-2644 ¶ 3.3.10.2	Free of bright fluorescent specks.	Pass
Removability: per AMS-2644 ¶3.3.10.4	Free of heavy developer film.	Pass
Redispersibility: per AMS-2644 ¶ 3.3.10.5	Resuspends readily	Pass
Solids Content: per ISO 3452-2:2006(E) ¶ 7.13	Bulk: 9.5 - 13.5 %, Aerosol: 19-27%	10.3 %
Performance per ISO 3452-2:2006(E) ¶ 7.15 at 122°F (50°C)*	Type I = > 95% 10µ; Type II = > 75% 30µ	Pass
Sulfur Content: per ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	ISO 3452: ≤ 200 ppm (0.02 %); PMC 4357: <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 4357: < 1000 ppm (0.1%)	< 200 ppm
Fluoride Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex A4	PMC 4357: ≤ 50 ppm (0.005 %)	< 50 ppm
Sodium Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4 & MCL M-504	PMC 4357: ≤ 1000 ppm (0.1 %)	< 1000 ppm
Total Halogen Content: ASTM E-165/E165M-18 ¶ 9.1.2 Annex 4	ISO 3452: ≤ 200 ppm (0.02%); ASME PV&B sec 6 < 1%	< 200 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) 341-0238 | F: (216) 441-1377

E: info@met-l-chek.com W: www.met-l-chek.com