McGean
2910 Harvard Ave
Cleveland, OH 44105-1377
Tel: 216-441-4900
Fax: 216-441-4544
www.mcgean.com

CERTIFICATION

E-57

Batch #: 50979

Product	Description	Type	Method	Sensitivity	Form	Class	Approval Date
E-57	Lipophilic Emulsifier	1	B	N/A	N/A	N/A	20-OCT-26

We hereby certify that this batch of inspection material when tested following manufacture meets the following:
Certificamos que este lote de material de inspeccíon cumple con los siguientes requisitos cuando es probado despues de la fabricación:

-SAE AMS 2644J and on the Qualified Products List (test reference: AFWAL/MLS 86-88, AFRL/MLS 98-165)
- MIL-STD-2132
- ISO/FDIS 3452-2:2021
- Safran Aircraft Engines Pr-5000, Issue F, §§6.4.1 and 6.4.2
- Honeywell EMS 52309, HGS1010
- Pratt & Whitney FPM PMC 4355-7 Rev. AV, dated 01/16/2026
- Rolls-Royce RRP 58003 Rev. K
- Boeing BSS 7039, BAC 20-20-02, PSD 6-46, PSD 8-4
- AMS 2647G, ASTM E165/E165M-23, ASTM E1417/E1417M-21
- General Electric Aircraft Engines 70-32-02, dated 11/22/2023, and General Electric Gas Turbines LM6000
PC
- NAVSEA 250-1500-1, Rev. 19, ¶¶ 12.5.1.1 and 12.5.1.1.1 & T9074-AS-G1B-010/271 Rev. 1 2014
- ASME Boiler and Pressure Vessel Code, 2025 Edition, Section V, Article 6, Mandatory Appendix II, ¶¶
II-641 and 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 notcontain polychlorinated biphenyl (PCB), nonylphenol ethoxylates (NPE), or RoHS banned substances.
Esta libre de todassustanciasdegradantes del ozono, de contaminación de mercurio, y no fue fabricado usando equipo conteniendo mercurio. Nocontiene polychlorinatedbiphenyl (PCB), nonylphenol ethoxylates (NPE), o RoHS sustancias prohibidas.

TEST DESCRIPTION	UNIT	SPECIFICATION	RESULT
Density: ISO 3452-2:2021 ¶ 6.3	G/L	817.2 - 998.8	917.4
Viscosity: ASTM D445-21; AMS 2644J ¶ 3.3.4; ISO 3452-2:2021 ¶ 6.4	MM2/S	27.0 - 34.4	28.4
Flash Point: ASTM D93-20; AMS 2644J ¶ 3.3.3; ISO 3452-2:2021 ¶ 6.5	C	93.3 Minimum	110.0
Water Tolerance: ISO 3452-2:2021 ¶ 6.10	%	5.0 Minimum	7.0
Sulfur Content: ASTM E165/E165M-23 ¶ 9.1.2, Annex A4	PPM	200 Maximum	69
Chloride Content: ASTM E165/E165M-23 ¶ 9.1.2, Annex A4	PPM	200 Maximum	9
Total Halogen Content: ASTM E165/E165M-23 ¶ 9.1.2, Annex A4	PPM	200 Maximum	19
Water Content: ASTM E1417/E1417M-21, Annex A1 (Karl Fischer)	%	5.00 Maximum	3.98
Appearance	P/F	Clear, pink liquid, no sediment	PASS
Performance: AMS 2644J ¶ 3.3.8.6; ISO 3452-2:2021 ¶ 6.2	P/F	Equal to MLC Standard	PASS

This certificate of analysis has been transmitted electronically and is valid without a signature