



CERTIFICATION
VP-31A
BATCH # 24332

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
VP-31A	Visible Penetrant	II	B & C	L2*	NA	NA	11-Feb-2022

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: AFWAL/MLS 86-88).
- Flowserve
- Velan PS-008, Rev. 10
- MIL-STD-2132 ¶ 7.1.3
- ISO/FDIS 3452-2:2006, EN 571-3
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 18
- ASTM E-165/E165-18, ASTM E-1417/E1417M-21
- RCC-M edition 2000, Section V-F, sub-section F6423 ¶ 3
- Framatome ANP Siemens AG; NFQS DC 103 Rev B 2004 ¶ MC 4200
- ASME Boiler & Pressure Vessel Code 2019, Section V, Article 6, appendix II-¶641 & II-¶642
- 10 CFR part 21 applies

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.

- 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.

QUALITY ASSURANCE TESTS	REQUIREMENTS	BATCH RESULTS
Appearance: ISO 3452-2:2006(E) ¶ 7.1	Dark red liquid, no sediment.	Pass
Density: ISO 3452-2:2006(E) ¶ 7.3	853.0 g/L - 870.7 g/L @ 21.1°C(70°F)	863.6 g/L
Viscosity: ASTM D-445, AMS-2644 ¶ 3.3.4, ISO 3452-2:2006(E) ¶ 7.4	4.4 - 5.4 mm ² /s @ 37.7°C (100°F)	5.1 mm ² /s
Performance: ISO 3452-2:2006(E) ¶ 7.2	*L2=(100% 50µ, >75% 30µ)@ 70°F(21.1°C))	Pass
Performance: NFQS DC 1003 Rev B 2004, ¶ MC 4200.	*L2=(100% 50µ, >75% 30µ)@ 122°F(50°C)	Pass
Flash Point: ASTM D-93, AMS 2644 ¶ 3.3.3	> 93.3°C (> 200 °F)	234°F
Sulfur Content: per ASTM E-165/E165M-18 ¶ 9.1.2 - Annex 4	≤ 200 ppm (0.02 %)	<200 ppm
Chloride Content: ASTM E-165/E165M-18 ¶ 9.1.2 - Annex 4	≤ 200 ppm (0.02 %)	<200 ppm
Total Halogen Content: ASTM E-165/E165M-18 ¶ 9.1.2 - Annex 4	≤ 200 ppm (0.02 %)	<200 ppm

MET-L-CHEK QUALITY ASSURANCE

BATCH TESTED BY:

DENNIS MASON
QC CHEMIST

BATCH APPROVED BY:

JUSTINE FORD
PLANT CHEMIST



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