

# CERTIFICATION

VP-31A

Batch #: 37632

Product	Description	Type	Method	Sensitivity	Form	Class	Approval Date
VP-31A	Visible Penetrant	II	B & C	L2*	N/A	N/A	11-FEB-22

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).
- Dassault IQ-1-0-1
- Velan PS-008, Rev. 10
- MIL-STD-2132 ¶ 7.1.3
- ISO/FDIS 3452-2:2021, EN 571-3\*
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 18
- RCC-M edition 2000, Section V-F, sub-section F6423 ¶ 3
- Framatome ANP Seimens AG; NFQS DC 103 Rev B 2004 ¶ MC 4200
- ASTM E-165/E165M-18, ASTM E-1417/E1417M-21, ASTM E1418-21
- ASME Boiler & Pressure Vessel Code 2021, Section V, Article 6, appendix II-¶-641 & II-¶-642
- NAVSEA 250-1500-1 ¶ 12.5.1.1.1, Rev 18, T9074-AS-G1B-010/271 supersedes MIL-STD-271(SH) ¶ 5.6.1(93)
- 10 CFR part 21 applies.

- 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.

TEST DESCRIPTION	UNIT	SPECIFICATION	RESULT
Density: ISO 3452-2:2021 ¶ 6.3	G/L	853.0 - 870.7	863.6
Viscosity: ASTM D445-21; AMS 2644H ¶ 3.3.4; ISO 3452-2:2021 ¶ 6.4	MM <sup>2</sup> /S	4.4 - 5.4	5.1
Performance Level 2 (50 micron at room temp): ISO 3542-2:2021 ¶ 6.2	%	100 Minimum	100
Performance Level 2 (30 micron at room temp): ISO 3452-2:2021 ¶ 6.2	%	75 Minimum	83
Performance Level 2 (50 micron at 50C): NFQS DC 103 Rev B 2004 ¶ MC 4200	%	100 Minimum	100
Performance Level 2 (30 micron at 50C): NFQS DC 103 Rev B 2004 ¶ MC 4200	%	75 Minimum	83
Flash Point: ASTM D93-20; AMS 2644H ¶ 3.3.3	C	93.3 Minimum	112.0
Sulfur Content: ASTM E165/E165M-23 ¶ 9.1.2, Annex A4	PPM	200 Maximum	36
Chloride Content: ASTM E165/E165M-23 ¶ 9.1.2, Annex A4	PPM	200 Maximum	12
Total Halogen Content: ASTM E165/E165M-23 ¶ 9.1.2, Annex A4	PPM	200 Maximum	20
Appearance: ISO 3452-2:2021 ¶ 6.1	P/F	Dark red liquid, no sediment	PASS

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