

# CERTIFICATION

VP-31A

Batch #: 27620

| Product | Description       | Type | Method | Sensitivity | Form | Class | Approval Date |
|---------|-------------------|------|--------|-------------|------|-------|---------------|
| VP-31A  | Visible Penetrant | II   | B & C  | L2*         | N/A  | N/A   | 03-MAR-23     |

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-18 ¶ 9.1.2, Annex A4                     | PPM                | 200 Maximum                  | 36     |
| Chloride Content: ASTM E165/E165M-18 ¶ 9.1.2, Annex A4                   | PPM                | 200 Maximum                  | 12     |
| Total Halogen Content: ASTM E165/E165M-18 ¶ 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