



# CERTIFICATION

## VP-30

### BATCH # 22977

PRODUCT	DESCRIPTION	TYPE	METHOD	SENSITIVITY	FORM	CLASS	APPROVAL DATE
VP-30	Visible Penetrant	2	A & C	L2•	NA	NA	6-May-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 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
- 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 Seimens 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# \_\_\_\_\_

- 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.*

QUALITY ASSURANCE TESTS	REQUIREMENTS	BATCH RESULTS
Appearance: ISO 3452-2:2006(E) ¶ 7.1	Clear red liquid, no sediment.	Pass
Density: ISO 3452-2:2006(E) ¶ 7.3	759 g/L - 838 g/L @ 21.1°C (70°F)	837 g/L
Viscosity: ASTM D-445, AMS-2644 ¶ 3.3.4, ISO 3452-2:2006(E) ¶ 7.4	2.1 - 2.6 mm <sup>2</sup> /s @ 37.7°C (100°F)	2.3 mm <sup>2</sup> /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	> 61.1°C (142 °F)	171 °F
Washability: MLC ISO 3452-2:2006(E) ¶ 7.6	Equal to MLC Standard	Pass
Water Tolerance AMS-2644 ¶ 3.3.8.5, ISO 3452-2:2006(E) ¶ 7.10	≥ 5 %	12.3 %
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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