

# VP-31A

Met-L-Chek® VP-31A is a visible (Type 2), post emulsifiable (Method B) and solvent removable (Method C) inspection penetrant. It is designed for use in general metalworking, welding, nuclear and automotive applications for surface flaw and through leak detection.

Met-L-Chek® VP-31A is used with Met-L-Chek® E-50 emulsifier for Method B processing which renders the penetrant water washable. Visible penetrants are not rated by sensitivity levels per AMS-2644 but are considered approximate to level 1 fluorescent penetrants. ISO-3452 does rate visible penetrants by sensitivity level with #2 being the most sensitive. VP-31A is a level 2 per this specification's requirements.



## NDT Classification

- Type: 2 – Visible
- Method: B & C

## Available Sizes

- Aerosol – 12 X 16 oz (400 mL)
- 6 X 1 Pint (0.4 L)
- 1 Gallon (3.7 L)
- 5 Gallon (18.9 L)
- 55 Gallon (208 L)

## NSN Information

- 6850-01-264-8677 – 5 gal

## Specifications

- AMS 2644
- ASME B&PVC Sec V
- ASTM E-1417
- ASTM E-1418
- ASTM E-165
- Dassault IQ-1-0-1
- ISO 3452-2
- MIL-STD-2132
- MIL-STD-271
- NAVSEA-250-1500-1
- NFQS DC 103 Rev B 2004; MC 4200
- PS-008 Rev. 10
- RCC-M rev 2000
- T9074-AS-G1B-010/271

## Typical Physical Properties

<b>Form</b>	Dark red liquid, no sediment.
<b>Density</b>	862 g/L
<b>Flash Point</b>	> 93.3°C
<b>Viscosity</b>	4.9 mm <sup>2</sup> /s

## Use Instructions

Visit [www.Met-L-Chek.com](http://www.Met-L-Chek.com) to view detailed processing method guides.

## Notes Prior to Handling

Before using Met-L-Chek® products, all safety and operating instructions should be read and understood. If you have any questions, please contact your Met-L-Chek® representative before proceeding. For complete health and safety information, refer to the product's Safety Data Sheet. Met-L-Chek® Safety Data Sheets can be requested online at [www.Met-L-Chek.com](http://www.Met-L-Chek.com)

## Contact Us

---

### United States

**McGean**

Phone: +1-216-441-4900

Fax: +1-216-441-1377

Email: [Info@Met-L-Chek.com](mailto:Info@Met-L-Chek.com)

### United Kingdom

**McGean UK**

Phone: +44-1902-456563

Fax: +44-1902-457443

Email: [Info@Met-L-Chek.com](mailto:Info@Met-L-Chek.com)

---

### Singapore

**McGean Singapore**

Phone: +65-6863-2296

Fax: +65-6863-2297

Email: [Info@Met-L-Chek.com](mailto:Info@Met-L-Chek.com)

### China

**Cee-Bee Aviation Materials (Xiamen) Co. Ltd.**

Phone: +86-592-551-3689

Email: [Info@Met-L-Chek.com](mailto:Info@Met-L-Chek.com)

Met-L-Chek® manufactures a complete line of Nondestructive Testing materials including penetrants used in fluorescent (Type 1) and visible (Type 2) dye penetrant inspection, wet and dry magnetic particle inspection, and a variety of specialty testing materials.

**CAUTION:** Before using any of these products, you must become completely familiar with the safety and hazard information contained in our safety data sheets regarding these products. McGean-Rohco, Inc. (the seller) presents the information contained herein without warranty and disclaims any liability from its use or misuse. Seller recommends use of the information Seller's products solely in commercial processes which are specified by Seller and which do not violate any third party patent rights or any laws or regulations. The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose except as expressly stated in the seller's sales contract or sales acknowledgement form.



Revision: 08/2022 (Rev. A2)