

# E-50

Met-L-Chek® E-50 is a Method B (lipophilic) inspection penetrant emulsifier used with VP-31A red visible (Type 2) penetrant. It is designed to be sprayed onto the post emulsifiable penetrant to render the penetrant water washable. It is a fast-acting emulsifier so very short contact time with the penetrant is required. E-50 emulsifier is ideal for use on rough castings and other metal surfaces which tend to retain penetrant readily, which causes high background and difficulty in evaluating indications.

Met-L-Chek® E-50 is effective in rendering most light oily soils water washable and has been used as a pre-wash cleaner for tough to clean surfaces. It has found use as a concrete cleaner for the removal of oily residues. The emulsifier is applied, allowed to soak in for a few minutes, and then washed off with water spray.



### NDT Classification

- Type: 2 – Visible
- Methods: B (Lipophilic)

### Available Sizes

- 1 Gallon (3.7 L)
- 5 Gallon (18.9 L)
- 55 Gallon (208 L)

### NSN Information

- No NSN Numbers

### Specifications

- AMS 2644
- ASME B&PV Code 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
- RCC-M rev 2000
- T9074-AS-G1B-010/271

### Typical Physical Properties

<b>Form</b>	Clear liquid, no sediment.
<b>Density</b>	781 g/L
<b>Viscosity</b>	1.6 mm <sup>2</sup> /s
<b>Flash Point</b>	> 62.2°C

### 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

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### 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)

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### 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.



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