

## E-58D

Met-L-Chek® E-58D is a Method D (hydrophilic) inspection penetrant emulsifier approved to AMS-2644 for use with Met-L-Chek® FP-93A(M), FP-95A(M), and FP-97A(M) fluorescent (Type 1) post emulsifiable penetrants.

Met-L-Chek® E-58D is diluted with water to the desired working concentration. Method D emulsifiers are used either by immersion or spray on



### NDT Classification

- Type: 1 – Fluorescent
- Methods: D (Hydrophilic)

### Available Sizes

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

### NSN Information

- 6850-01-269-1878 – 1 gal
- 6850-01-268-6715 – 5 gal
- 6850-01-268-6717 – 5 gal
- 6850-01-268-6716 – 55 gal
- 6850-01-268-6718 – 55 gal

Complete listing of NSN Numbers can be found at [www.Met-L-Chek.com](http://www.Met-L-Chek.com).

### Specifications

- |                    |                      |
|--------------------|----------------------|
| • AMS 2644         | • IN-5000c           |
| • AMS 2647         | • ISO 3452-2         |
| • ASME B&PVC Sec V | • MIL-STD-2132       |
| • ASTM E-1417      | • NAVSEA 250-1500-1  |
| • ASTM E-165       | • OMat 621           |
| • BAC 20-20-02     | • PMC 4355           |
| • BAC 5423         | • PR-5000            |
| • BSS 7039         | • PSD 6-46 & PSD 8-4 |
| • EMS 52309        | • RPS-702-7          |
| • GE 70-32-02      | • RRP 58003          |
| • GE LM6000 PC     | • T9074-AS-GIB-010   |
| • HGS1010          |                      |

### Typical Physical Properties

<b>Form</b>	Clear, reddish pink liquid, no sediment.
<b>Density</b>	1080 g/L
<b>Viscosity</b>	20.7 mm <sup>2</sup> /s
<b>Flash Point</b>	> 93°C

### Use Instructions

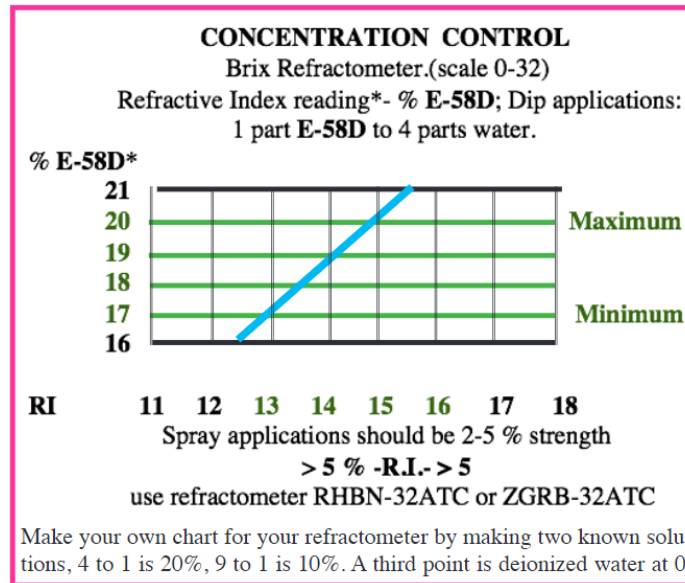
Visit [www.Met-L-Chek.com](http://www.Met-L-Chek.com) to view detailed processing method guides.

### 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)

## Tank Preparation & Control

For immersion the use range is 17 - 20 % or 1-part emulsifier to 4 parts water. The concentration is controlled by using a brix refractometer and a concentration chart. For spray applications the concentration is kept 1 – 5%. In immersion applications the penetrant covered part is given a quick water wash and then immersed into the gently agitated emulsifier from 30 seconds to 2 minutes depending upon the part surface roughness. The part is removed and washed. The pre-rinse step may be omitted for the spray application method of the emulsifier.



## Contact Us

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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: 05/2025 (Rev. A3)**