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## **Technical Bulletin 276**

### **Mi-Glow<sup>®</sup> 778S-RTU**

Mi-Glow<sup>®</sup> 778S-RTU is a Ready-to-Use water bath packaged in a hand-held spray bottle. The water bath contains Mi-Glow<sup>®</sup> 800 fluorescent yellow-green particles premixed with liquid Wetting Agent 771. It is designed for revealing very fine discontinuities in finished products using black light.

#### **Properties**

Particle Color: Fluorescent Yellow-Green

Concentration: 1.3 g/ml

Particle Size: Not less than 98% passage through US Standard No. 325 (45 µm) sieve as defined in AMS 3044. The typical range of particle sizes is from 1 to 12 µm, with an average particle size of 5 µm.

Sensitivity: Mi-Glow<sup>®</sup> 778S RTU shows a minimum of 8 lines on an AISI 01 Ketos tool steel ring (as defined in SAE AS5282), set on a 1-inch diameter copper bar, magnetized with 2500 A of direct current.

Particle Certification: Particles meet or exceed all relevant industry specifications, including but not limited to MIL-STD-1949, AMS 3044, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E, ASTM E 1444. Certification is included with each shipment.

Temperature Limits: 32-120°F (0-49°C)

Shelf Life: Five (5) years, when sealed bottles are not subjected to excessive heat or cold. A Certificate of Shelf Life is available upon request.

#### **Directions for Use**

Preparation: Thoroughly shake the bottle, insert the spray nozzle and apply to the parts for inspection.

Concentration Test: If it becomes necessary to verify the concentration in the bottle, thoroughly shake the bottle and the method of test should be as follows:

1. Fill a 100 ml graduated centrifuge tube as specified in Guide E709, or equivalent, to the 100 ml mark with suspension directly from the bottle. Demagnetize the suspension, if considered necessary, and let it stand undisturbed for a minimum of 30 minutes or until completely settled.
2. Read the volume of the precipitate in the graduate. The recommended volume is between 0.15 to 0.3 ml. NOTE: Very fine particles may go into colloidal

suspension, appearing as fluorescence in the upper area of the bulb. A magnet can be used to determine that these are actually very fine particles.

Corrosion Inhibition: For best results, the system should be run in the pH range of 8.5 - 9.5, as verified by testing with a pH meter or pH paper.

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