

## **CIRCLE SYSTEMS, INC.**

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### **Technical Bulletin #270** **CircleSafe® 850A**

CircleSafe® 850A is an aerosol spray can of Mi-Glow® 600 red particles and liquid Wetting Agent 771, formulated in water media. It is designed to be used with visible light inspection for detecting discontinuities found in structural fabrications and weldments. Higher particle concentration provides heavier indication buildup for easy detection. CircleSafe® 850A can be further enhanced when used with a black light or blue light. This aerosol is packaged in a carbon dioxide propellant for odor-free, fume-free, non-combustible inspection.

#### **Properties**

Particle Color: Red

Concentration: 8.0 grams of particles per liter of fluid.

Characteristics: Water based, non-flammable, non-corrosive and free of odors and fumes.

Particle Size: Not less than 98% passage through US Standard No. 325 (45 µm) sieve. The typical range of particle sizes is from 5 to 20 µm, with an average particle size of 9 µm.

Certification: Particles meet or exceed all relevant industry specifications, including but not limited to MIL-STD-1949, AMS 3042, MIL-STD-271(SH), NAVSEA 250-1500-1, NTR-1E, ASTM E 1444. Certification is included with each shipment.

Temperature Limits: 120°F Maximum

Shelf Life: Two (2) years when stored in a clean area, away from excessive heat or cold. A Certificate of Shelf Life is available upon request.

#### **Directions for Use**

##### Preparation:

1. For best results, use when can is between 70° and 90° F (21° and 32° C).
2. Thoroughly clean surface to be examined.
3. Shake can vigorously for fifteen seconds and occasionally during use.
4. Point spray button toward inspection surface, holding can 7 to 9 inches (18 to 24 cm) from surface.
5. Spray solution onto suitable, magnetized surface until the surface is thoroughly covered with solution.
6. Examine the surface under visible light for indications.
7. If clogging develops, turn spray button 1/4 turn. If clogging persists, remove and clean spray button. DO NOT put pin or other object into can opening. Gently replace

spray button with a twisting motion, holding top of can and spray button opening pointed away from you.

8. Discard empty can in trash. DO NOT place in garbage compactor.

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