

CIRCLE SYSTEMS, INC.

479 West Lincoln
P.O. Box 1228
Hinckley, IL 60520
Ph.: 815-286-3271
Fax: 815-286-3352
customerservice@circlesafe.com



Technical Bulletin #281 **CircleSafe® 850AX**

CircleSafe® 850AX is an aerosol spray can of Mi-Glow® 600 red particles and CircleSol M, a refined petroleum distillate. 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® 850AX can be further enhanced when used with a black light or blue light. The carbon dioxide propellant reduces combustible hazard.

Properties

Particle Color: Red

Concentration: 8.0 grams of particles per liter of fluid.

Characteristics: Non-flammable gas propellant. Flash Point (for Oil): 215°F by Pensky-Martens Closed Cup (ASTM D-93).

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, carrier and mixture meet or exceed all relevant industry specifications, including but not limited to MIL-STD-1949, MIL-STD-271(SH), ASTM E 709, ASTM B & PV Code – Section V and NAVSEA 250-1500-1. AMS 3041, AMS 3042, AMS 3161, AMS 2641 and DOD-F-87935 are covered under MIL-STD-1949. 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.

DISCLAIMER: OUR TECHNICAL ADVICE, INFORMATION AND STATEMENTS GIVEN VERBALLY, IN WRITING OR IN THE FORM OF TEST RESULTS, ARE OFFERED FOR YOUR GUIDANCE WITHOUT WARRANTY. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. IT IS THE USER'S RESPONSIBILITY TO TEST THE SUITABILITY OF EACH PRODUCT FOR HIS INTENDED PROCESS AND APPLICATIONS. OUR GUARANTEE IS LIMITED TO THE CONSISTENT QUALITY OF OUR PRODUCTS.
