

Technical Bulletin 271A CircleSafe[®] 800A

CircleSafe[®] 800A is an aerosol spray can of Mi-Glow[®] 800 fluorescent yellow-green particles and CircleSol M[™], a refined petroleum distillate. It is designed to detect very fine discontinuities found in finished products and critical, highly stressed component parts. Its ultra-bright, ultrasensitive particles allow for excellent detection. The carbon dioxide propellant reduces combustible hazard.

Properties

Particle Color: Fluorescent Yellow-Green

Concentration: 1.25 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 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: CircleSafe[®] 800A 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.

Certification: Particles meet or exceed all relevant specifications including but not limited to ASTM E 1444, MIL-STD-271, NAVSEA 250-1500-1, ASTM E 709 and ASME B & PV Code -Section V, AMS 3046, AMS 3161, AMS 2641 and A-A-59230.

Temperature Limits: 120°F Maximum

Shelf Life: Two (2) years when stored in a closed container away from heat (<120°F), sparks, open flames and oxidizers. 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 black light for fluorescent 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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