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TECHNICAL BULLETIN #268

CircleSafe 778A

CircleSafe 778A is a pre-proportioned combination of MI-GLOW 800 fluorescent particles and a specifically formulated wetting agent in water, packaged in carbon dioxide charged aerosol cans. **CircleSafe 778A** is designed for revealing very fine defects, such as those found in finished products for the aerospace industry and other critical applications.

PROPERTIES

Particle Color: Fluorescent yellow-green

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 800 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.

Concentration: 2.0 grams of MI-GLOW 800 per liter of fluid

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

Certification: Particles conform to or exceed all relevant specifications including but not limited to MIL-STD-1949, MIL-STD-271(SH), NAVSEA 250-1500-1, ASTM E 709, and ASTM B & PV Code-Section V. AMS 3044 is covered under MIL-STD-1949.

Temperature Limit: 120°F Maximum

DIRECTIONS

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 ultra-violet 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 pick-up. DO NOT place in garbage compactor.

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