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TECHNICAL BULLETIN #269X

CircleSafe 820AX

CircleSafe 820AX is a pre-proportioned combination of non-fluorescent particles and odorless inspection oil vehicle packaged in carbon dioxide charged aerosol cans. **CircleSafe 820AX** is designed to be used in white light inspection for revealing very fine defects as found in finished products and structural fabrications.

PROPERTIES

Particle Color: Non-fluorescent Black

Particle Size: Not less than 98% passage through US Standard No. 325 (45 μm) sieve as defined in AMS 3042. The typical range of particle sizes is from 0.5 μm to 4.0 μm , with an average particle size of 1.5 μm .

Sensitivity: CIRCLESAFE 820AX shows a minimum of 6 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: 12.0 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).

Certification: Particles, carrier and mixture conform to or exceed all relevant 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 3042, AMS 3161, AMS 2641 and DOD-F-87935 are covered under MIL-STD-1949.

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 white 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 pick-up. DO NOT place in garbage compactor.

January 2007