



Circle Systems, Inc.



7952 Nieman Road, Lenexa, KS 66214-1560 USA
Phone: 913-685-0675, Fax: 913-685-1125
www.ndtsupply.com, sales@ndtsupply.com

Technical Bulletin 280

Mi-Glow® 850S-RTU

Mi-Glow® 850S-RTU is a Ready-to-Use water bath packaged in a hand-held spray bottle. The bath contains Mi-Glow® 600 red particles and liquid Wetting Agent 771. It is designed to be used with visible light for revealing discontinuities found in structural fabrications. Mi-Glow® 850S-RTU can be further enhanced when used with a black light or blue light.

Properties

Particle Color: Red

Concentration: 8.0 g/l

Particle Size: Not less than 98% passage through US Standard No. 325 (45 µm). The typical range of particle sizes is from 5 to 30 µm, with an average particle size of 10 µm.

Particle Certification: Particles meet or exceed all relevant industry specifications. Certification is included with each shipment.

Temperature Limits: 32-120°F (0-49°C)

Shelf Life: One (1) year, when sealed bottles are not subjected to excessive heat or cold. A Certificate of Shelf Life is available upon request.

Directions for Use

Preparation: Thoroughly shake the bottle, insert the spray nozzle and apply to the parts for inspection.

Concentration Test: If it becomes necessary to verify the concentration in the bottle, thoroughly shake the bottle and the method of test should be as follows:

1. Fill a 100 ml graduated centrifuge tube as specified in Guide E709, or equivalent, to the 100 ml mark with suspension directly from the bottle. Demagnetize the suspension, if considered necessary, and let it stand undisturbed for a minimum of 60 minutes or until completely settled.

2. Read the volume of the precipitate in the graduate. The recommended volume is between 1.2 to 2.4 ml.

Lighting:

Visible Light Inspection - White light providing at least 100 foot candles (1,000 lux) at the part surface is recommended.

UV Light Inspection - UV-A light providing at least 1000 microwatts/cm² at the part surface is recommended.

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