

Approvals and conformities

ISO 9934-2

MANUFACTURER: CIRCLE SYSTEMS (USA)

DESCRIPTION / APPLICATIONS:

Red magnetic powder used for visible and fluorescent magnetic particle inspection. This product is a premix of dual-light particles and wetting agent for use in an underwater system.

It is design to be used for a variety of underwater inspections, including offshore structural welds, pipeline inspection and ship husbandry. It is a versatile particle with a broad range particle size range and the ability to be used in both UV light, actinic blue and white light systems.

Companion products: Water

DIRECTIONS FOR USE

Preparation:

Slowly spread the powder in water and shake vigorously.

The recommended concentration is 15 g/L.

When these particles are used in a saline environment, a new solution must be prepared daily to prevent corrosion of the particles.

Application:

Shake the container vigorously before use.

Spray the product on the part during magnetization. Continue magnetization for 2 to 3 seconds after the end of application.

Observation:

Observe under UV-A illumination (minimum irradiance: 1000? W/cm² recommended: >= 1500 μW/cm²) in dimmed visible light (< 20 lux) after adaptation of the eye for 2 to 3 minutes according to EN ISO 3059.

Actinic blue (A-Blue®) very effective.

TECHNICAL CHARACTERISTICS

| | |
|----------------------------|-------------------------------|
| Appearance | Red powder (with white spots) |
| Particles dimensions | 2 to 65 / average value 10μm |
| Fluorescence | 6,6 cd/W (under UV-A) |

PRECAUTIONS FOR USE AND STORAGE

Transport / Handling: refer to MSDS (material safety data sheet)

Storage : Keep away from moisture.

Keep packaging closed after taking out some of the product and at room temperature.

This technical data sheet replaces and cancels the previous one.