TECHNICAL DATA SHEET

DUBL-CHEK GW-8

Code 1550

Fluorescent Oxide Particles Premixed with Wetting Agent

DESCRIPTION

DUBL-CHEK GW-8 fluorescent yellow-green particles premixed with powdered Wetting Agent for use in water media. It is designed to be used with ultraviolet light to detect very fine discontinuities in finished products. The Wetting Agent is low foaming and has excellent wetting characteristics.

FEATURES & BENEFITS

- Particles are easily agitated, fast acting and produce defined indications
- Particles meet specification requirements
- Shelf life: 36 months (3 years) from date of manufacture
- Refer to NDT Shelf Life and Storage Recommendations for further information

PHYSICAL PROPERTIES

Particle Colour:	Green
Florescence:	Fluorescent Yellow / Green
Specific Gravity:	0.6 g/ml
Particle Size:	1 – 12 µm (average 5µm)
Sensitivity:	8 lines on an AISI 01 Ketos tool steel ring
Temperature limit:	0°C to 49°C

SPECIFICATION COMPLIANCE

- MIL-STD-1949
- AMS 3044
- MIL-STD-271
- NAVSEA 250-1500-1
- NTR-1E
- ASTM E1444

ORDERING INFORMATION

Product Code	Packaging
1550/2LBS	1kg
1550/30LBS	13.5 (3.5 gallons)

BATCH NUMBERS Batch numbers can be found on the bottom of aerosol cans or labels of bulk containers. Certificate of Conformance documents are provided with the product or can be download from www.callington.com

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DIRECTIONS

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.

Preparation: DUBL-CHEK GW-8 should be used at a concentration of 5 grams/litre of water. For best results, add a small amount of water to the powder and form a slurry prior to addition to the bath. When using the scoop provided with the DUBL-CHEK GW-8, one level scoop treats 3.8L of tap water.

Settlement Test: The settlement test, using a pear-shaped centrifuge tube, is essential to check the particle concentration and contamination to the suspension. This SHALL be performed on the initial batch, an adjustment made to the concentration, or at each shift change. The Settlement Test methods and particle concentrations can be found in relevant standards. The recommended volume is between 0.15 and 0.25 ml and will vary from one specification to another. (Read the settled particles that are fluorescent using an ultraviolet light.) The concentration may be adjusted by adding more water or GW-8 as required.

1. Clean the test surface and allow it to dry.
2. Ensure continuous agitation of the suspension.
3. Magnetise the area to be inspected.
4. Apply the suspension to the test part at a distance of approximately 150mm from the surface.
5. Allow the excess water to run off the inspection area.
6. Inspect the surface under fluorescent light.
7. Collections of GW-8 particles will reveal discontinuities at the leakage fields.
8. Clean and repeat the process, changing the orientation of the magnetising direction.

STORAGE/SHELF LIFE

Keep away from moisture and sunlight. Keep the container closed when not in use. Shelf life: 36 months (3 years) from date of manufacture. Refer to NDT Shelf Life and Storage Recommendations for further information.

HEALTH & SAFETY

Use with adequate ventilation and away from spark, fire, or open flames. Avoid prolonged or repeated contact with skin. Do not breathe gas, fumes, vapour, or spray. Consult the MSDS for more Safety and Health information. Get medical attention if irritation develops and persists. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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