

TECHNICAL DATA SHEET

DUBL-CHEK GW-8

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.

Properties

Particle Colour:	Green
Fluorescence:	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

Packaging

1kg	Product Code: 1550/2LBS
13.6kg	Product Code: 1550/30LBS

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.

Specifications

Particles meet or exceed industry specifications including;
MIL-STD-1949, AMS 3044, MIL-STD-271, NAVSEA 250-1500-1, NTR-1E, ASTM E 1444

Batch Numbers

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

Special Features

Particles are easily agitated, fast acting and produce defined indications
Particles meet specification requirements
Can be used with both stationary and portable magnetic test equipment
Water based suspension is non-flammable

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Instructions

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.

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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