

### TECHNICAL DATA SHEET

# DUBL-CHEK GLO-NETIC

## Fluorescent Magnetic Particle

Code 1530

#### DESCRIPTION

DUBL-CHEK GLO-NETIC is GW-1 fluorescent magnetic oxide suspended in a highly refined light petroleum oil. The suspension responds to magnetic leakage fields created by discontinuities in ferromagnetic material. Particles rapidly collect at leakage fields producing fluorescent indications under ultraviolet light.

#### FEATURES & BENEFITS

- A 360° valve that enables an aerosol to be sprayed upside down
- Every aerosol contains a comfort nozzle for your pleasure
- Low background colour for assured indication visibility
- Particles are easily agitated, fast acting and produce defined indications
- Aerosols offer convenience and improve reliability
- Water dispersion is non-flammable

#### PHYSICAL PROPERTIES

Colour: Brown  
 Fluorescent: Yellow/Green  
 Suspension Fluid: Clear highly refined light petroleum oil or water  
 Flash Point: >95°C (>200°F)

#### SPECIFICATION COMPLIANCE

- MIL-STD-1949
- MIL-STD-271(SH)
- NAVSEA 2501-1500-1
- ASTM E 709
- ASTM B & PV Code - Section V
- ASTM E1444
- ASTM E3024
- ISO 9934
- AMS 3044
- AMS 3045
- AMS 3161
- AMS 2641
- DOD-F-87935
- NATO Number: 6850-00-841-1347
- NTR-1E



#### ORDERING INFORMATION

Product Code	Packaging
1530/400	400 ml (Aerosol)
1530/42	3.8 litres (1 gallon)
1530/51	18.9 litres (5 gallons)
1530/64	208 litres (55 gallons)

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### 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](http://www.callington.com)

### COMPANION DUBL-CHEK PRODUCTS

- MPF – Magnetic Particle Fluid
- GW-1 - Fluorescent Magnetic Particle

### DIRECTIONS

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

1. Clean the test surface and allow it to dry
2. Ensure continuous agitation of the suspension. If using an aerosol, shake vigorously before and during inspection.
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 oil/water to run off the inspection area.
6. Inspect the surface under ultraviolet light.
7. Collections of GW-1 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. Temperature limit: 4°C to 50°C (40°F-125°F). Shelf life: 36 months (3 years) from date of manufacture. Refer to NDT Shelf Life and Storage Recommendations for further information.

### HEALTH & SAFETY

DUBL-CHEK GLO-NETIC packaged within an aerosol is extremely flammable. When GW-1 is suspended in oil it forms a combustible liquid. 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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Created 3<sup>rd</sup> September 2020 Date Printed 6/06/2023 1:09 PM