



Glo-netic GW-1

Technical Data Sheet

Description: **Glo-netic GW-1** is a dry concentrate, mixed with light oil or water to find microscopic cracks in ferrous metals by the magnetic particles method. Glo-netic GW-1 can be used for inspecting critical parts. The particles respond to magnetic leakage fields created by cracks and other flaws. They rapidly collect at such fields and when viewed under black light, they reveal and profile flaws as bright, glowing yellow-green marks.

Chemical Properties

Color: Brown Fine Powder

Fluorescence: Yellow/Green

Companion Products

CP-1 Contrast Paint

CP-2 Contrast Paint

MPF – Magnetic Particle Fluid

W5C – Water Conditioner for magnetic particles

Packaging

One Pound Cans

Five Pound Cans

Storage/Shelf Life

Keep away from moisture and sunlight.

Temperature limit: 40⁰F to 125⁰F (4-50⁰C)

Keep the container closed when not in use.

Shelf life from invoice date: Bulk Container – 5 Years



Specifications

AMS - 3044

ASME Code NDT, Sec V

Special Features

1. Low background for assured indication visibility.
2. **Glo-netic GW-1** can be used with oil or water.
4. **Glo-netic GW-1** can be used with both stationary and portable magnetic test equipment.

Instructions

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 to dry.
2. Magnetize the area to be inspected.
3. **Glo-netic GW-1** may be used either with oil or water.
 - A) Oil: Add **Glo-netic GW-1** to any approved light oil at the rate of 1/6 ounce per gallon. Add **GW-1** to oil slowly while agitating. The mixture should be agitated for 15 minutes before the concentration is measured. The concentration may be adjusted by adding more light oil or **GW-1** as required.
 - B) Water: The water must be conditioned before the **GW-1** particle will disperse. Add **GW-1** to conditioned water at 1/6 ounce per gallon.
4. Apply the **Glo-netic GW-1** solution (oil or water) to the test part with the magnetic equipment in contact.
5. Allow the excess oil/water to run off the surface.



6. Inspect the surface under UV-A lighting. Collections of fluorescent magnetic particles will reveal defects at the leakage fields.
7. Clean and repeat the process, changing the magnetizing equipment by 90°.

Health & Safety

Glo-netic GW-1 in solution should be used with adequate ventilation and away from sparks, fire or open flames. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more safety and health information.