



GW1-W5C Magnetic Particle and Water Conditioner

Technical Data Sheet

Description: **GW1-W5C** is a dry mixture of fluorescent magnetic particles and water conditioning agent. The water conditioner will spend magnetic oxide particles, wet test surfaces and inhibit corrosion in water baths. **GW1-W5C** contains surface wetting agents, corrosion inhibitors and anti-foaming agents.

Chemical Properties

Color: White and green powder mixture

Solubility: White powder dissolves completely in water, green particles insoluble

Fluorescence: Yellow/Green

Companion Products

CP-1 Contrast Paint

CP-2 Contrast Paint

Packaging

5 pound box

10 pound box

25 pound box

Storage/Shelf Life

Keep away from moisture and sunlight.

Temperature limit: 40°F to 125°F (4-50°C)

Keep the container closed when not in use.

Shelf life from invoice date: 36 months

Specifications

SAE AS 4792

AMS 3044

Special Features

1. **W5C** is a water conditioner with corrosion inhibitors.
2. Allow water to be used for magnetic particle inspection.
3. Can be used with both stationary and portable magnetic test equipment.
4. **GW1** is a fluorescent magnetic particle.



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.

Concentration: The recommended concentration is 11.5 grams/liter (1-1/2 ounces per gallon.) Significantly higher concentration may cause excessive foaming. Lower concentrations may not provide adequate surface wetting.

Mixing: Add the **W5C** water conditioner to water while stirring. Add the magnetic particles to the conditioner water with agitation. Allow the solution to mix for 15 minutes before checking the concentration of the magnetic particles.

1. Clean the test surface and allow to dry.
2. Magnetize the area to be inspected.
3. Apply the **GW1-W5C** water solution to the test part with the magnetic equipment in contact.
4. Allow the excess water to run off the surface.
5. Inspect the surface under appropriate lighting. Collections of magnetic particles will reveal defects at the leakage fields.
6. Clean and repeat the process, changing the magnetizing equipment by 90°.

Maintenance: Oily and dirty parts should be precleaned before the magnetic oxide is applied. Such materials not only interfere with surface wetting and particle dispersment but also shorten the tank life. Anti-foam action may diminish with aging of the water bath, or if higher concentrations than usual are used. Keep container closed when not in use and material free from moisture.

Health & Safety

GW1-W5C is a light powder and can be hazardous if not used properly. Avoid inhalation. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more safety and health information. Do not get into eyes. Keep out of reach of children.