



W5C Water Conditioner for Magnetic Particles

Technical Data Sheet

Description: W5C is a water conditioner used in magnetic particle inspection. W5C is added to water in order to disperse magnetic particles in an inspection fluid. The water suspension is used to allow the magnetic particles to respond to magnetic leakage fields created by cracks and other flaws.

Chemical Properties

Color: White Powder

Solubility: Complete in Water

Companion Products

Glo-netic GW-1

Packaging

5 pound can

10 pound can

25 pound can

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: Bulk Container – 36 months

Specifications

SAE AS 4792



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.

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. Add 1 1/3 ounces of **W5C** water conditioner to water while stirring.
4. 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.
5. Apply the water solution to the test part with the magnetic equipment in contact.
6. Allow the excess water to run off the surface.
7. Inspect the surface under appropriate lighting. Collections of magnetic particles will reveal defects at the leakage fields.
8. Clean and repeat the process, changing the magnetizing equipment by 90°.

Health & Safety

W5C is a white powder that contains corrosion inhibitors. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more safety and health information.