

PRODUCT DATA SHEET

MAGNETIC PARTICLE INSPECTION

WA-2B/WA-4 - WATER CONDITIONERS

General Description:

WA-2B Water Conditioner is a white granular powder used in wet method magnetic particle testing when water is used as the bath vehicle. WA-2B water conditioner gives the water bath good surface wetting as well as magnetic particle dispersion capabilities. WA-2B's unique blend of wetting agents, corrosion inhibitors, and anti-foaming agents eliminates the need of any additional water conditioning agents. WA-2B is an outstanding general-purpose water conditioner for wet method magnetic particle inspection that does not cake during storage.

WA-4 Water Conditioner is a clear amber liquid used in wet method magnetic particle testing when the bath vehicle is water. WA-4 water conditioner gives the water bath good test part surface wetting as well as magnetic particle dispersion capabilities. WA-4's blend of wetting agents and corrosion inhibitors eliminates the need of any additional water conditioning agents. Being a liquid, WA-4 exhibits more rapid dispersion in bath make-up than powdered conditioners. If stored in the cold, white crystals may form and settle to the bottom of the container. To re-dissolve them, bring container up to room temperature and shake or stir occasionally.

Composition:

WA-2B is composed of non-ionic surface active agents, corrosion inhibitor and anti-foaming agent.

WA-4 is composed of non-ionic surface active agents and corrosion inhibitors. Because all components are water soluble, WA-4 does not leave a completely reliable rust proofing film on the surface for long term storage.

Physical Properties (Not a Specification):

WA-2B

Form:	White granular powder
Density:	49 lbs./cu. ft. (10 g/l)
Recommended concentration:	1-1/3 oz./gal. (9.7 gm/L)
pH:	9.1

WA-4

Form:	Amber liquid
Specific gravity:	1.14
Recommended concentration	1% by volume or 1-1/3 oz./gal.
pH:	9.7

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Bath Preparation:

WA-2B - Add WA-2B (1-1/3 oz./gal.) to warm water (80°-110°F) while stirring. Add directly over sump on wet horizontal magnetic particle units for more rapid dispersion. Stir until wetting agent is completely dissolved, then add magnetic particles. Avoid excessive amounts of wetting agent as increased foaming can occur as well as white precipitate of excess wetting agent.

WA-4 - Add WA-4 at 1 part to 100 parts bath while stirring (1.3 fl. oz./gal.). Add magnetic particles over sump for more rapid dispersion. Avoid excessive amounts of wetting agent as heavy foaming can occur.

Container Size:

WA-2B - 5 lb. plastic pail, 30 lb. plastic pail

WA-4 - 1 gallon plastic bottle, 5 gallon plastic pail