ARDROX®8800 & 8810

Fluorescent Magnetic Particle Materials
Wet Methods

PRIMARY APPLICATION

ARDROX® 8800 is a fluorescent magnetic particle formulated for use in a petroleum-based carrier fluid. ARDROX 8800 is most commonly used in ARDROX Base Oil HF at 1/6 ounce per gallon (1.25 grams per liter). Setting volume range is 0.15 to 0.3 ml after 30 minutes. A rough measure for bath makeup is 7.5 teaspoons of powder for every 5 gallons of bath, or one 500-gram container for every 100 gallons.

ARDROX 8800 is a high sensitivity material that will yield a relative sensitivity of 8 indications on an AISI 01 ketos ring (as defined in MIL-STD-1949) set on a one inch diameter copper bar magnetized with 2,500 amps, direct current.

APPROVALS

ARDROX 8800 and 8810 meet the requirements of: AMS-3044. ARDROX 8800A meets the requirements of AMS 3045. ARDROX 8800B meets the requirements of AMS 3046.

They all meet the requirements of the A.S.M.E. Boiler and Pressure Vessel Code, Section V, Article 7, as well as the requirements of the A.E.C.L. and ASTM E 1444.

ARDROX® 8800A

ARDROX 8800A is a prepared bath of ARDROX 8800 in ARDROX Base Oil HF carrier fluid. ARDROX 8800A is available in cases of 12 aerosol cans.

ARDROX® 8800B

ARDROX 8800B is a prepared bath of ARDROX 8800 in ARDROX Base Oil HF carrier fluid, and is available in 5 gallon pails.

ARDROX® 8810

ARDROX 8810 is a blend of 8800 and special powdered water-conditioning agents. It is mixed with water at 1 ½ ounces per gallon (11.25 grams per liter). A rough measure for bath makeup is 1lb for each 10 gallons of water.

APPLICATION NOTES

When switching a system from a petroleum carrier fluid to water, the system must be thoroughly cleaned and repeatedly flushed to remove all traces of old material. This is also true when switching from pre-blended powder concentrate for water to a liquid concentrate for water. Failure to eliminate traces of previous chemical compounds can cause inconsistent dispersion and indication formation.

In all continuous method MPI applications the sequence is important. Apply current, apply magnetic particles, stop current flow. Stopping the current flow while bath is still flowing can wash off indications.

SAFETY AND HANDLING

Prior to handling and use of any of the materials referenced in this document, the Material Safety Data Sheets should be read and understood by all personnel in contact with these materials.

KEEP OUT OF REACH OF CHILDREN

STORAGE

Dry indoor storage at temperatures between 40°F and 100°F is recommended, away from any incompatible materials referenced in the Material Safety Data Sheets. All containers should be tightly closed when not in use.

DISPOSAL

Any disposal of the materials referenced in this document should be in accordance with all applicable federal, state, and local regulations. The process solution can contain components other than those present in the materials as supplied. Analysis of process solutions may be required prior to disposal.

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