



Technical Bulletin 248
Wetting Agent 771

Wetting Agent 771 is a liquid concentrate used for magnetic particle inspection in a water system. It is a special water chemistry, which consists of corrosion inhibitors, anti-foaming agents, wetting agents and pH buffering agents. Wetting Agent 771 has superior wetting properties for use in water media and is ideally used with our Mi-Glow[®] powders.

Properties

Color: Clear to Amber

Specific Gravity: 1.2 g/ml - for the concentrate

pH: 9.5

Recommended Concentration: For a new system, use 3.2 ounces per 1 gallon (25ml/L) of water. For an established system requiring additional wetting, use 2 ounces per one gallon (16ml/L) of water.

Temperature Limit: 120°F Maximum

Shelf Life: Eighteen (18) months, when sealed bottles are not subjected to excessive heat or cold.

Directions for Use

Preparation: Wetting Agent should be used at a dilution of 1 part concentrate with 39 parts water. The recommended proportion may vary depending on specific applications. Each bottle should be thoroughly mixed before use. If a bottle is emptied, it should be rinsed with water and the contents added to the system.

Corrosion Inhibition: For best results, the system should be run in the pH range of 8.5 - 9.5, as verified by testing with a pH meter or pH paper. A special test for corrosion inhibition, Technical Bulletin 235, is available upon request and should be adapted to the specific part being inspected. This test should be run periodically to monitor the level of corrosion inhibitors present in the bath.

Evaporation: If the level of solution in the system has dropped, the following procedure should be used as a guideline. First, replenish the water to the proper bath level. Then, test the level of corrosion inhibition in the system using the procedure that is outlined in Technical Bulletin 235. Wetting Agent 771 should then be added as necessary.

System Conversion: When changing a bath from a refined petroleum distillate system, reference Technical Bulletin 244.

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