



Technical Bulletin 249
Wetting Agent 483

Wetting Agent 483 is a liquid concentrate used for magnetic particle inspection in a water system. It is a borate-free chemistry, which consists of corrosion inhibitors, anti-bacterial agents, and wetting agents. This advanced formulation allows for superior corrosion protection, wetting, particle mobility, and increased shelf life. Wetting Agent 483 is a borate-free concentrated liquid wetting agent with no water or defoamer added (see below for the addition of the defoamer) for use in water and ideally used with our Mi-Glow[®] powders.

Properties

Color: Amber to Dark Amber

Specific Gravity: 1.1 g/ml

pH: 7 - 8

Recommended Concentration: For a new system, use 1.7 ounces per 1 gallon (13.3ml/L) of water. For an established system requiring additional wetting, use 0.9 ounces per one gallon (7ml/L) of water.

Temperature Limit: 120°F Maximum

Shelf Life: Four (4) years, 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 74 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.

Addition of Defoamer: **Wetting Agent 483 contains no water or defoamer.** *Once the concentrate is thoroughly mixed into the water, the defoamer can be added. Be sure to shake the defoamer before every use.* For baths less than a full bottle of concentrate, use slightly less than half a capful of shaken defoamer per liter (approximately 1.2 to 2 g/L in diluted bath). If an entire bottle of concentrate is placed into a bath, use 90 to 150 grams (1 1/3 to 2 lines on the defoamer bottle) of shaken defoamer. If extra defoamer is needed, add the defoamer a capful at a time into a diluted bath. NEVER add the defoamer directly into the concentrate!

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

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