



Slow Release Tablets

Guidelines for Use

Applications:

DTEA II™ SR and **DTEA II™ SR Plus SC** slow release tablets are designed for treating water in small to medium-sized (<250 RT, <3,000 gal) cooling towers and other industrial water systems. DTEA II™ is especially useful for treatment of high cycle and re-use water-supplied systems which are prone to fast deposit buildup.

The active ingredient in the DTEA II SR tablet is DTEA II, an organic deposit penetrant and dispersant as well as a yellow-metal corrosion inhibitor. This tablet is designed to reduce the “demand” and therefore the usage of scale and corrosion inhibitors, and biocide chemicals.

The active ingredients in the DTEA II SR Plus SC tablet are DTEA II plus added scale and corrosion inhibitors. This tablet may be suitable as a stand-alone deposit and corrosion control program, depending on individual system needs.

DTEA II SR and DTEA II SR Plus SC tablets are generally used as part of a program that also provides microbial control. The slow release tablets plus biocide (liquid or solid) constitutes an effective biofilm control program.

Tablet description:

Each tablet weighs 100 grams and is held in a mesh bag with a plastic loop.

Placement of tablets in water system:

Hang in sump basin in circulating water or in water spray below fill (see photo at right). Tablets may also be placed in floating feeders.

Appearance changes during use:

Tablet initially swells as it absorbs water and surface becomes slimy. It slowly becomes smaller in size as it dissolves.

Dosage recommendations:

General initial guideline: 1 tablet per 25 RT (refrigeration tons, or about 300 gal system volume depending on design) for relatively clean systems. Higher dosages may be required for systems that are prone to more fouling.

Note that industrial water systems are designed and operated differently for different applications and thus it is not realistic that one dosage rate will work for all. Thus, the recommended dosage is a good starting point which should be optimized by users.





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Performance monitoring:

1. Overall system operating/performance parameters (heat transfer, flow rates, pressure)
2. Corrosion coupons/monitors
3. Calcium carbonate scaling index (when using DTEA II SR Plus SC)
4. Fouling index (ATP, back pressure tube, deposit coupons/box)

Approximate tablet dissolving time (depends on factors described below):

DTEA II SR: 2-3 weeks

DTEA II SR Plus SC: 3-4 weeks

Factors affecting dissolving time:

Temperature (typical use temp is 80-90 °F, expect faster dissolving rate above 90 °F and slower dissolving rate below 80 °F).

Flow rate/mixing around tablet. Slower dissolving rates are expected in slower flow areas, such as by hanging in water spray area below fill, and when using floating feeders.

Tablet combination options:

The availability of two tablet formulations offers additional options to use them in combinations for special applications. For example, the shorter lifetime DTEA II SR tablet may be used alongside the longer lifetime DTEA II SR Plus SC tablet to provide a “boost” of DTEA II organic deposit control during the first 2-3 weeks of a monthly program.

Application note:

Not recommended for small volume systems of under 100 gallons unless there is a constant and sufficiently high flow of water.

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DTEA II SR and **DTEA II SR Plus SC** tablets described in this product sheet are protected by US Patent 9,090,495.



AMSA, Inc.™
4714 S. Garfield Rd. • Auburn, Michigan, USA • 48611
Tel: (989) 662-0377 Fax: (989) 662-6461
sales@amsainc.com
www.amsainc.com