



CLEANER ST-5410

DESCRIPTION

ST-5410 is a specially inhibited dry sulfamic acid crystal material containing a special color indicator to identify when the ST-5410 is spent. ST-5410 dissolves scale twice as fast as the same amount of liquid cleaners. ST-5410 is a convenient to use dry crystal product that is easy to apply. The ST-5410 inhibitor protects against corrosion of most metals including galvanized surfaces.

APPLICATION

ST-5410 should be used to clean any system suspected of mineral type scale deposits. Normal application is 2 pounds of ST-5410 for each 5 gallons of system water capacity.

PHYSICAL PROPERTIES

Color & Form Purple crystals
Specific Gravity..... 2.1 grams/cc
Ph..... 1.18 (1%)
Density..... 17.52

DOSAGE & FEEDING

ST-5410 is applied at 2 pounds per 5 gallons of system capacity to a system that has previously been cleaned to remove any blockage preventing flow. ST-5410 should be added to a point where good mixing and agitation will dissolve ST-5410. The color of a fresh batch of ST-5410 will be dark blue-green to indicate full strength. If the indicator turns purple, more cleaner should be added until the solution is again dark blue-green. For complete instructions see procedure outlined below.

TO REMOVE SCALE FROM COOLING TOWER SYSTEMS

1. Drain water from sump and flush out all dirt and sediment. Refill system.
2. Check spray nozzles, strainers, and water distributing system. Clean if necessary.
3. Where applicable, shut off bleed or blow down and adjust float valve to prevent overflow.
4. Refill sump with fresh water. Start refrigeration system and operate with tower or condenser fans

off, or spray nozzles removed or by-passed, until water is warm or hot.

5. Pour 2 pounds of ST-5410 into sump water for each 5 gallons of water in the system. Stir until dissolved, then start circulating pump.

NOTE: Occasionally check the color of the pH indicator in the cleaning solution if the color is dark blue, the solution is at desired strength; if the indicator color turns purple, more cleaner should be added until a dark blue color is obtained. Generally, if the cleaning solution continues to test dark blue for 30 minutes enough ST-5410 has been added. Badly scaled systems may require several doses of ST-5410, but no more than 2 doses should be added to the same water. If scale is heavy, drain the spent solution and repeat cleaning procedure with a fresh charge.

6. Drain and flush system after cleaning process is completed. Refill with freshwater. No neutralizer is needed.

These directions are offered as the fastest and most thorough method of cleaning a cooling tower system. However, system may be cleaned equally well with the system remaining in normal operation. Just omit steps 3 and 4.

HANDLING PRECAUTIONS

ST-5410 is a strong acidic product. Avoid contact of product with mouth, eyes, or skin. In case of contact, flush affected area with large amounts of water. Seek medical attention for eye contact. DO NOT store near alkaline products. Keep container closed when not in use.

PACKAGING

ST-5410 is available in 50-pound screw top pails.