

Technical Data Sheet

CS-414S COOLING TOWER SCALE & CORROSION INHIBITOR

GENERAL DESCRIPTION:

CS-414S is a blend of scale inhibitors, silica control multi-polymers, polymers and corrosion inhibitors designed to protect cooling towers and evaporative condensers from scale and corrosion when used with a properly designed conductivity and dosing control system. Use CS-414S in combination with BT-925 oxidizing biocide tablets and CS-117 bio-dispersant for scale, corrosion and biological control.

PHYSICAL PROPERTIES:

Appearance (concentrate).....	Clear Amber Liquid
Solubility	Complete in Water
Specific gravity.....	1.09
Density.....	9.1 lbs/gal

FEEDING:

CS-414S should be applied using a metering pump and a properly designed control system that accurately doses CS-414S based on water meter inputs. CS-414S is applied at a rate of 2.16 fluids ounces divided by system cycles of concentration (cycles) for each 100 gallons of make up water. For example if you are operating at 4 cycles, 0.54 ounces of CS-414S is required for each 100 gallons of make-up water. We can calculate the required pump runtime for dosing based on the dosing pump's capacity. Please contact us for assistance. Phosphonate level should be maintained in the 6-10 ppm range as measured using the BWI microwave test. If you are using a phosphonate dropper test, such as Lamotte's 7625 dropper count test, use a factor of 1.0 (e.g. number of drops of thorium nitrite for color change) and maintain the phosphonate level in the range of 10-20 ppm (10-20 drops for color change). Maintain system pH in the range of 8.0 - 8.8. Normal conductivity ranges are dependent on make-up water requirements but generally should not exceed 1300 μ S or 3-6 cycles, whichever is less. If make-up water silica levels exceed 25 ppm, maintain tower water silica levels at or below 200 ppm based on a double diluted Lamotte Silica Test 4463 (call for more information).

SAFETY AND HANDLING:

Please refer to Material Safety Data Sheet for further safety information. Wear protective gloves and goggles when handling.

PACKAGING:

CS-414S is available primarily in 30 and 55-gallon natural poly drums. Other sizes are available upon request. F.O.B. shipping point.

STORAGE INSTRUCTIONS:

Store at room temperature - keep from freezing.

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Industrial Water Treatment

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