



Disinfectant and Virucide\*



# Disinfection of Evaporative Coolers

## How to make an in-use diluted solution of Virkon® S

Concentration	Virkon® S	Gallons of water
1:100	1 scoop (1.3oz)	1
1:200	1/2 scoop (0.7oz)	1

Note - The 1.0% in-use solution is used for disinfection and/or initial treatment, the 0.5% in-use solution is used for cleaning and/or maintenance.

### For cleaning and disinfection of evaporative cooler and associated waterlines:

#### Option 1:

1. Dose the sump reservoir for the evaporative cooler system with a 0.5% - 1.0% solution of Virkon® S, according to the above table, by making a concentrated slurry with the appropriate amount of Virkon® S and sufficient water to mix into solution. Slowly pour solution into sump and allow to circulate throughout the waterlines and onto the pads.
2. Observe evaporative cooler over time and re-dose with 0.5% - 1.0% Virkon® S solution as in Step 1 when hard water scale or algae begins to develop.

#### Option 2:

1. Make a 1.0% solution of Virkon® S by filling a suitable container with water and Virkon® S according to the dilution table [from product label]. Stir thoroughly until fully dissolved.
2. Apply solution using a low-pressure sprayer - solution will recycle through the waterlines.
3. Observe evaporative cooler over time and re-dose with 0.5% - 1.0% Virkon® S solution as in Step 1 when hard water scale or algae begins to develop.

The information in this brochure has not been reviewed and approved for use in California.

Please consult the Virkon® S product container label for a comprehensive list of organisms and directions for use.

**Note – Foaming may occur, which is normal, from the surfactant cleaning the pads.**



## Virkon® S Cool Cell Pad Calculation

Measurements		
Description	Name	Amount
Cool Cell Sump Length in ft	A	(ft)
Cool Cell Sump Width in ft	B	(ft)
Cool Cell Sump Water Depth in ft	C	(ft)
Calculation		
A x B x C	D	(ft <sup>3</sup> )
Note 1 Gallon = 0.134 (ft <sup>3</sup> )		
Sump Volume (gallons)		
D / 0.134	E	Gal
Virkon® S needed		
0.5% = 1.3oz (1 Scoop) per 2 gallons		
1.0% = 1.3 oz (1 Scoop) per gallon		
Note 1 Scoop = 1.3oz by weight not volume		
0.5 % = 1.3 x E/2	F	
1.0% = 1.3 x E		
F / 16 = Pounds (lb) of Virkon® S		

Example		
100 ft cool cell pad, 10" wide sump, 4" water depth		
Cool Cell Sump Length in ft	A	100 (ft)
Cool Cell Sump Width in ft (10/12)	B	0.833 (ft)
Cool Cell Sump Water Depth in ft (4/12)	C	0.333 (ft)
Calculation		
100 x 0.833 x 0.33	D	27.49 (ft <sup>3</sup> )
Note 1 Gallon = 0.134 (ft <sup>3</sup> )		
Sump Volume (gallons)		
27.49 / 0.134	E	205 Gal
Virkon® S needed		
0.5% = 1.3oz (1 Scoop) per 2 gallons		
1.0% = 1.3 oz (1 Scoop) per gallon		
Note 1 Scoop = 1.3oz by weight not volume		
0.5 % = 1.3 x 205/2	F	133
1.0% = 1.3 x 205		264
F / 16 = Pounds (lb) of Virkon® S		
0.5% Concentration (133/16)	102 scoops or 8lb 5oz	
or		
1.0% Concentration (264/16)	203 scoops or 16lb 8oz	



virkon.us

**LANXESS Corporation**  
111 RIDC Park West Drive • Pittsburgh, PA 15275 • Phone: 1-800-LANXESS • www.US.LANXESS.com

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Note: The information contained in this publication is current as of March, 2023. Please contact LANXESS Corporation to determine if this publication has been revised.

©2023 LANXESS. Virkon® and any associated logos are trademarks or copyrights of LANXESS Corporation. LANXESS and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH. All trademarks are registered in many countries worldwide.