

Poor Wash Performance Problems with non Phosphate Detergents in DishDrawer

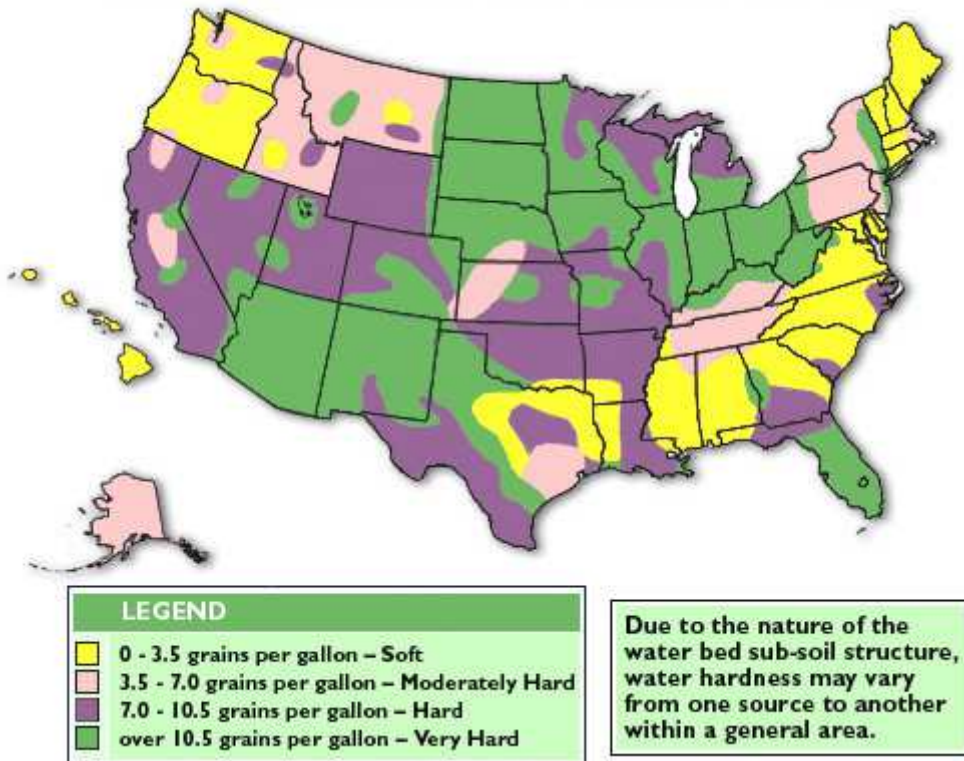
On the 1st of July 2010, all Dishwasher Detergent manufacturers voluntarily eliminated phosphates from their products in response to 16 states of the USA banning phosphates from Dishwasher detergents.

Phosphates provided an effective method of not only cleaning dishes but also eliminating lime scale inside a Dishwasher in hard water areas. Dishwasher detergents that do not contain phosphates used in hard water areas will show a visible reduction in wash performance.

What is Water Hardness?

Hard water is water that contains dissolved magnesium and calcium. Rainwater is naturally soft, but as it filters through the ground into the water table it picks up trace elements. The hardness of your water is dependent on where you live and the source of the main water supply.

HARD WATER LEVELS THROUGHOUT THE U.S.



Water Hardness Units

Water hardness in the USA is measured in grains per gallon (gpg)

Water Hardness	Grains per gallon (gpg)
Soft	<3.5
Medium	3.5-7
Hard	7-10.5
Very Hard	>10.5

If the water hardness is over 10 gpg, the consumer will experience difficulties with wash performance in Dishdrawer using powdered non-phosphate detergent.

Problems with Hard Water

Hard water causes problems with the cleaning process. The mineral salts will bind with the detergent and make the detergent less effective. In hard water areas the following problems may be noticed.

- Dishes and glassware washed in the Dishdrawer become spotted or has a white film on it when dry.



- Build up white film on the filter plate of the Dishdrawer.





- White scale deposits on the top of the tub.

Dealing With Hard Water Deposits in DishDrawer

The hard water deposits in the DishDrawer will need to be removed. The white film will increase the concentrations of calcium and magnesium in the wash water rendering all detergent ineffective no matter what type or additive is used.

A number of products can be used to clean off the white deposits.

	<p>Sold by most Supermarkets or Grocery Stores & Customer Care (part number 129271).</p> <p>One bottle will be needed for each tub. Therefore you would need to buy two bottles for a double DishDrawer.</p> <p>Remove the sticker off the cap and place the bottle upside down in the Dishdrawer rack, as you would load a plate. Ensure the spray arm can rotate freely.</p> <p>Run the DishDrawer on a Heavy or Normal Cycle.</p>
	<p>Sold by most Supermarkets or Grocery Stores & Customer Care (part number 159056).</p> <p>One packet will be needed for each tub.</p> <p>Place the contents of one packet inside the dispenser for each tub.</p> <p>Run the DishDrawer on a Heavy or Normal Cycle.</p>

Recommended Detergents and Additives.

The current recommendation in DishDrawer is to use powdered detergent. Powdered detergent will work fine in areas where water hardness is below 5 grains per gallon. However if a customer is finding a white build up inside the tub of the DishDrawer and on glasses and plates, then the incoming water is too hard for the powdered detergent.







The following additive can be used in conjunction with powdered detergent and will significantly improve a consumers DishDrawer wash performance. It is available at most grocery stores and is available from spare parts

<p>LemiShine. (p/n 159054)</p>		<p>Place in the large main wash compartment of the DishDrawer dispenser.</p> <p>Place the powdered detergent only in the small prewash part of the dispenser.</p>
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Monodose or Tablet Detergents

A large variety of so-called monodose detergents are currently available to North American Consumers. They come in a variety of designs, either as tablets or as liquids or powders in water-soluble packaging.

All contain a variety of chemicals, such as enzymes and oxygenated bleaches, which can effectively cope with excessively hard water levels, but deliver effective wash performance. All have been tested in DishDrawer and can be used in the following manner. In hard water areas, these detergents showed a 30% improvement in wash performance against powdered non-phosphate detergents.

<p>Finish Quantum Tablets</p>		<p>Must be placed in the cutlery basket</p>
<p>Finish All in One Tablets</p>		<p>Must be placed in the cutlery basket</p>
<p>Finish All in 1 Gel Pacs</p>		<p>Can be placed in either the cutlery basket or dispenser. The packet of detergent can be fitted into the main wash compartment by forcing over the prongs.</p>
<p>Cascade Action Pacs</p>		<p>Can be placed in either the cutlery basket or dispenser. The packet of detergent can be fitted into the main wash compartment by forcing over the prongs.</p>

Further information on the detergents can be obtained by calling the toll free numbers for each manufacturer.

Cascade 1-800-765-5516
 Finish 1-800-228-4722

