



# DUO SOLID

Ecological 2-in-1 dilution concept  
for automatic dishwashing

SAVINGS ON PRODUCT USE AND OPERATION COSTS

IMPROVED SAFETY

MAXIMIZED FLOOR SPACE

SUSTAINABLE DISHWASHING SOLUTION

THINK SAFE, CLEAN GREEN



**CHRISTEYNS**

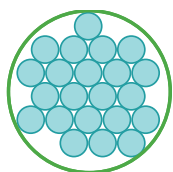
PROFESSIONAL HYGIENE



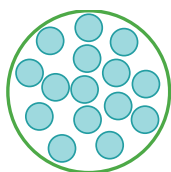
The Christeyns Duo Solid concept is a 2-in-1 dosing concept for dilution of a solid detergent and rinse into automatic dishwashers. The straightforward equipment combined with the qualitative products ensure that clean tableware and kitchen utensils are no longer a concern in your kitchen.

## ABOUT SOLIDS

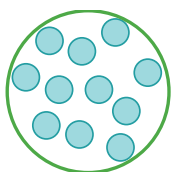
Solid chemicals have a **higher density** than liquid chemicals. This makes them more compact: there are no water molecules 'floating' between the product molecules. **Transportation costs and product use** are therefore reduced. On top of that solids carry **less hazard risks**, making them more **user friendly**.



Solid



Liquid



Gas

## ADVANTAGES OF SOLIDS

Due to the solid condition of the chemical product there's **no risk of splashing, spilling** or any other chemical disposure. Cleaning staff never comes into direct contact with the product. Safety is improved.

The compact 5 kg packaging weighs less and is also much smaller in size than traditional liquid chemicals in canisters and is therefore **easier to handle**. The product takes up less space which in turn also optimises the available floor space. A big storage area for canisters becomes redundant.

You **save on product use** because of the highly concentrated product in the solid packaging.

You **save on operation costs** such as handling, transport and warehousing because of the compact and concentrated product.



ONE SOLID CAPSULE  
EQUALS 25 KG OF  
COMPARABLE LIQUID  
DETERGENT. THIS MEANS  
**80% LESS WEIGHT** CARRIED  
AND TRANSPORTED.



## EQUIPMENT AND SPECIFICATIONS

The Duo Solid system allows dilution of both a detergent and a rinse product in your automatic dishwasher. It is perfectly suited for **tunnel washers** or **top/front loaders** with high rotation. The compact, wall-mounted system is easy to install and maintain. The Duo Solid equipment requires water and electric supplies.



## PRODUCTS

Christeyns offers 2 **products** that are compatible with the Duo Solid equipment. The **GREEN'R Autodish Solid** is a highly concentrated, solid detergent suited for cleaning and maintenance of dishware, glassware and kitchen utensils in all types of professional dishwashers. The product carries the **EU Ecolabel certification**. The **GREEN'R Rinse Solid** is used in combination with the GREEN'R Autodish Solid as a professional rinse aid for soft to hard water.

### GREEN'R Rinse Solid

- Ultra concentrated acid rinse aid
- Fast and homogenous drying, without leaving traces
- Sparkling finish, preserves the shine of the dishes
- Non-foaming
- pH (20°C): 6 (10%)
- 3.6kg solid capsule (packed per 2x3,6kg)

### GREEN'R Autodish Solid

- Alkaline detergent with high degreasing power
- Ultra concentrated formula
- For all water hardness conditions due to balanced amount of sequestrants
- NTA and EDTA free
- Suited for glass and porcelain at recommended dosages
- Not suited for alkali-sensitive materials such as copper, brass, aluminium, rubber, ...
- pH (20°C): 12 - 13 (1%)
- EU Ecolabel certification ES-V/038/006
- 5kg solid capsule (packed per 2x5kg)



EU Ecolabel:  
ES-V/038/006

## WHY USE A DOSING SYSTEM?

Contrary to manual and hydraulic dosing, **automatic dosing** of your dishwashing products makes sure the fluctuation between the actual dosing and the optimal dosing of the product in the dishwashing tank is minimal. The computer controlled dosing gives a **more accurate and constant product level**.



## OPERATIONS & PROCESSES

To ensure **optimal operation** of our products, there are some best practices to take into account during the dishwashing process. Following these recommendations **minimises rewash and thus also increasing costs**. Your Christeyns representative can help you to put this in practice.

- Manually **pre-scrap and pre-rinse** dishes before putting them into the dishwasher
- Make sure dishes are **racked properly**
- Regular **machine cleaning** is required (jets, wash arms, strainer, filter, curtains, ...)
- **Fine tune the dosing amount** depending on the amount and type of soiling of your dishes
- Check if the correct **wash- and rinse temperatures** are met



**WASH 60 - 65°C**  
**RINSE 82 - 85°C**

**THE PRODUCT USE  
ONLY COUNTS FOR 5%  
OF THE TOTAL DISHWASHING  
COSTS.**

THE OTHER 95% CAN BE TRACED  
BACK TO WORKFLOW & PROCESSES,  
INDIRECT COSTS, MAINTENANCE  
AND WATER & ENERGY USE.

## SAVINGS

The duo solid dosing concept is not only very practical in use and safe for your employees, there are (both financial and operational) benefits on different levels.



### LESS VOLUME

The solid product capsules are very **compact** and take **75% less floor space** during storage and transport. The **concentrated formula** avoids the transport of voluminous diluted products.



### LESS PRODUCT USE

The solid detergent and rinse products are highly concentrated and can be **dosed very precisely** due to the specialised equipment. This makes the **product use significantly lower** compared to liquid products.



### LESS OPERATION COSTS

The above arguments result in **decreased direct and indirect costs**: less transport costs, reduced warehousing space, economical product consumption. The Duo Solid concept is therefore a **sustainable investment** for your dishwashing process.