

# ALLSTAR Dosatron filling

## PRODUCT FILLING

ALLSTAR is applied at 0.8l/ha and can only be applied in-furrow to a potato crop.

This is below the minimum setting of most Dosatron units.

Therefore BASF recommend using one of two solutions for this:

1. Add ALLSTAR and container washings to the water tank and apply conventionally without a Dosatron unit (See Option 1) or
2. Add ALLSTAR **and** container washings to concentrate tank of the Dosatron and use the lowest setting (see Option 2 for TEAM applicators, Option 3 for Grimme and Techneat applicators.) The addition of the container washings is important to allow the Dosatron method to work correctly.

### Option 1 – using the water tank:

Add product as with a conventional sprayer.

Eg. If using a water volume of 100l/ha, then add 1.0l ALLSTAR to 125l water.

### Option 2 – using the Dosatron on **TEAM Compact 90/120:**

To achieve the correct application rate of 0.8l/ha, using 100l/ha of water, follow the process below:

Add product as you would with azoxystrobin.

Set the Dosatron to deliver 1% product (1l/ha in 100l/ha water).

250 ml of water in total needs to be added to the concentrate tank in order to achieve the correction dilution for the 1% setting. Add half of this to the tank first to aid mixing.

Add 1 Litre ALLSTAR to concentrate tank.

Add the remaining water to the concentrate tank and ensure this is well mixed.

For other water rates and Dosatron settings, please see dilution tables below for more information.

### Option 3 – using the Dosatron on **Techneat In-Furrow or Grimmie/Horstine Applicator:**

To achieve the correct application rate of 0.8l/ha to apply to 1 ha, using 100l/ha of water, follow the process below:

Add product as you would with azoxystrobin.

Set the Dosatron to deliver 3% product (3l/ha in 100l/ha water).

2750 ml of water in total needs to be added to the concentrate tank to achieve the correction dilution for the 3% setting. Add half of this to the tank first to aid mixing.

Add 1 litre ALLSTAR to concentrate tank.

Add the remaining water to the concentrate tank and ensure this is well mixed.

For other water rates and Dosatron settings, please see dilution tables below for more information.

**If using lower water volumes, the total volume to dilute the concentrate are as follows (differs from Option 2 because continue to use lowest setting):**

- **Using 50l/ha then the total volume of needs to be halved to 1875 ml, ie 875 ml of water needs to be added to the 1 litre of ALLSTAR in the Dosatron tank.**
- **Using 75l/ha then the total volume of product is 2813 ml, ie 1813 ml of water needs to be added to the 1 litre of ALLSTAR in the Dosatron tank.**

## Dosatron dilution factors

**TEAM APPLICATOR (12 litre concentrate tank)** Mls water required for correct dilution when using a Dosatron unit at the relevant concentration (%).

		Water volume (l/ha)															
		50		60		70		75		80		90		100		110	
Container size (l)		1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5
Dosatron setting	1%	X	X	X	X	X	X	X	X	X	X	125	625	250	1250	375	1875
	1.5%	X	X	125	625	313	1565	407	2035	500	2500	688	3440	875	4375	1063	5315
	2%	250	1250	500	2500	750	3750	875	4380	1000	5000	1250	6250	1500	X	1750	X
	2.5%	563	2825	875	4375	1188	5940	1344	6725	1500	7500	1813	X	2125	X	2438	X
	3%	875	4390	1250	6250	1625	X	1813	X	2000	X	2375	X	2750	X	3125	X
	3.5%	1188	5955	1625	X	2063	X	2282	X	2500	X	2938	X	3375	X	3813	X

X = not possible with Dosatron; use water tank as for a conventional spray

NOTE, table relates to Dosatron with 1% lowest setting

**Worked example: Water volume 75 l/ha**

Using full 5 litre container

Dosatron setting 2%

Add 4380 ml container washings to concentrate tank  
(3 x 1460 ml to triple rinse container)

**TECHNEAT APPLICATOR (20 litre concentrate tank)** Mls water required for correct dilution when using a Dosatron unit at the relevant concentration (%).

		Water volume (l/ha)															
		50		60		70		75		80		90		100		110	
Container size (l)		1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5
Dosatron setting	3%	875	4390	1250	6250	1625	8125	1813	9070	2000	10000	2375	11875	2750	13750	3125	X
	3.5%	1188	5955	1625	8125	2063	10315	2282	11415	2500	12500	2938	14690	3375	X	3813	X
	4%	1500	7500	2000	10000	2500	12500	2750	13750	3000	15000	3500	X	4000	X	4500	X
	4.5%	1813	9063	2375	11875	2938	14690	3219	X	3500	X	4063	X	4625	X	5188	X
	5%	2125	10625	2750	13750	3375	X	3688	X	4000	X	4625	X	5250	X	5875	X
	5.5%	2438	12188	3125	X	3813	X	4156	X	4500	X	5188	X	5875	X	6563	X

X = not possible with Dosatron; use water tank as for a conventional spray

NOTE, table relates to Dosatron with 3% lowest setting

**Worked example: Water volume 75 l/ha**

Using full 5 litre container

Dosatron setting 3%

Add 9070 ml container washings to concentrate tank  
(3 x 3023 ml to triple rinse container)

**GRIMMIE APPLICATOR (13 litre concentrate tank)** Mls water required for correct dilution when using a Dosatron unit at the relevant concentration (%).

		Water volume (l/ha)															
		50		60		70		75		80		90		100		110	
Container size (l)		1	5	1	5	1	5	1	5	1	5	1	5	1	5	1	5
Dosatron setting	3%	875	4390	1250	6250	1625	X	1813	X	2000	X	2375	X	2750	X	3125	X
	3.5%	1188	5955	1625	X	2063	X	2282	X	2500	X	2938	X	3375	X	3813	X
	4%	1500	7500	2000	X	2500	X	2750	X	3000	X	3500	X	4000	X	4500	X
	4.5%	1813	X	2375	X	2938	X	3219	X	3500	X	4063	X	4625	X	5188	X
	5%	2125	X	2750	X	3375	X	3688	X	4000	X	4625	X	5250	X	5875	X
	5.5%	2438	X	3125	X	3813	X	4156	X	4500	X	5188	X	5875	X	6563	X

X = not possible with Dosatron; use water tank as for a conventional spray

NOTE, table relates to Dosatron with 3% lowest setting

**Worked example: Water volume 60 l/ha**

Using full 5 litre container

Dosatron setting 3%

Add 6250 ml container washings to concentrate tank  
(3 x 2083 ml to triple rinse container)