



JANUARY 2010 SYNGENTA TURF TECHNICAL UPDATE



Syngenta Turf Nozzles on target for better results



As the final point of delivery, the choice of nozzle ultimately dictates spray coverage on the leaf and, most importantly, spray retention on the intended target. Syngenta Turf Nozzles have been specifically designed to improve application techniques in turf and to enhance results that can be achieved with Syngenta Turf products. Syngenta Turf Nozzles simply fit into the existing bayonet housing on virtually all modern turf sprayers.

Syngenta Turf Soil Nozzle

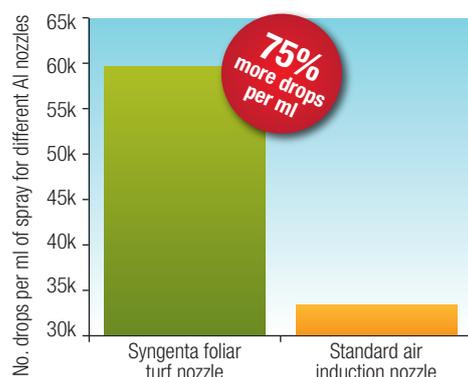


- High velocity forces spray through turf to reach stem base and soil
- Designed to enhance turf penetration at lower water volume, compared to flat fan nozzles
- Typical water volume giving optimum results – 550 l/ha
- Significantly increase sprayer output per day
- Spray pattern and velocity minimises risk of drift
- Unique design for turf applications gives optimum operating height of 50 cm
- For best results with **Heritage Maxx** applications to control soil borne pathogens, spike or aerate the turf before application and tank mix with a wetting agent to optimise soil penetration

Syngenta Turf Foliar Nozzle



- Droplet spectrum designed to maximise spray retention on the leaf
- Optimum droplet size for leaf coverage
- Syngenta Turf Foliar Nozzle design will typically deliver 75% more droplets per ml of spray, compared to an equivalent standard air induction nozzle



- Excellent drift reduction
- Designed to work at lower water volume, compared to conventional flat fan nozzles
- Typical water volume giving optimum results – 250 l/ha
- Optimum operating height is 50 cm above the turf
- Incorporates 10° angle for improved spray pattern during application
- Alternate nozzles to face forwards and backwards along the spray boom for improved coverage of all sides of the leaf and to reduce the risk of drift
- Retains spray pattern characteristics at faster operating speeds



Art of Application

CALIBRATE | SPRAY | REPORT | DELIVER

Use the tables below to calculate an appropriate forward speed and operating pressure to deliver the required water volume. Calibrate nozzle output using the flow rate figures in the table; recalibrate spraying equipment regularly.

Syngenta Turf Foliar Nozzle

Nozzle	Pressure bar	Flow l/min	Application rate l/ha at forward speed (km/h)				
			4	5	6	7	8
04	1	0.92	280	222	185	159	139
	2	1.31	392	314	261	223	196
	2.5	1.46	438	350	292	250	219
	3	1.60	480	384	320	274	240
	4	1.85	554	443	370	317	277
	5	2.07	620	496	413	354	310

■ Optimum ■ Recommended



Recommended for:

- **Primo Maxx** growth regulator applications
- Foliar liquid fertilisers
- All foliar fungicide applications

Syngenta Turf Soil Nozzle

Nozzle	Pressure bar	Flow l/min	Application rate l/ha at forward speed (km/h)				
			5	6	7	8	10
08	1	1.85	443	370	317	277	222
	2	2.61	627	523	448	392	314
	3	3.20	768	640	548	480	384
	4	3.70	887	739	633	554	443
	5	4.13	991	826	708	620	496

■ Optimum ■ Recommended

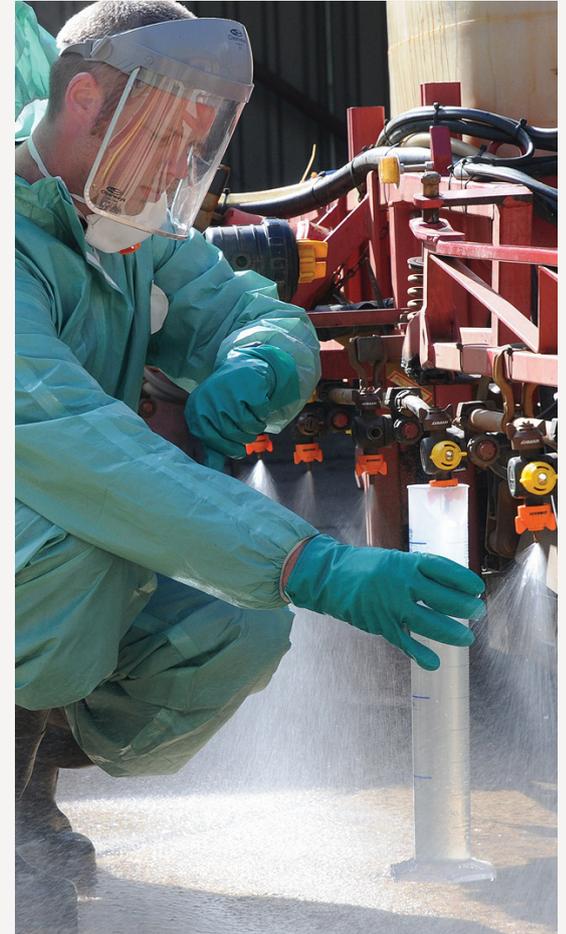


Recommended for:

- **Heritage Maxx** applications for Take-All, Patch and Fairy Ring
- Soil applied liquid fertilisers
- Wetting agents

For more information and a practical guide on sprayer calibration and checks, go to the Art of Application Zone of the Syngenta Turf website: www.greencast.co.uk or www.greencast.ie.

Syngenta turf sprayer calibration checker



For simple and accurate nozzle calibration, use the pre-marked Syngenta Turf Sprayer Calibration Checker.

Key advantages:

- Quick and easy to use
- Works for all 0.5 m nozzle spacing boom
- Requires no reference to calculations

Calibrate regularly to check the consistency and accuracy of all nozzles.

For more information visit the Art of Application Zone on www.greencast.co.uk.

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