



Flevo Berry. Enserweg 23. 8307 PK Ens. The Netherlands

Fertilization guidelines Furore

General

Starting with a drip EC of 1,3-1,4 mS/cm directly after planting is sufficient for Furore. Higher drip EC's are often not needed as this can lead to quickly increasing drain EC's already early in the growing season, with salinification of the substrate and faster deterioration of the crop as a result. In general steering towards a drip and drain EC sum of 2.5 mS/cm is sufficient. A few remarks:

- When using well water with a certain EC then corrections should be made on the fertilizer recipe. Also, when lowering the drip EC the influence of the well water on the composition of the nutrient solution will become greater, especially when there is sodium, chloride or boron in it. Always check the composition of the starting water.
- The drip EC may not be lowered unlimited in case of an increasing drain EC, often the drain EC increases easier during the second half of the cultivation. Lowering the drip EC too much can then lead to a too low offer of nutrition to the crop (especially too low nitrates). Maintain a certain drip EC.

Recipes with more than 5.0 mmol/liter potassium, like being used for Junebearers, are not needed for Furore. In a stage with a very high plant load the potassium-calcium ratio can be increased towards 1.2-1.3 in order to feed slightly more potassium compared to calcium. Be careful with doing this continuously as high potassium has an inhibiting effect on growth.

The feed of trace minerals for Furore is mostly equal to that of other varieties, though be careful with too much manganese and boron in the nutrient solution. Especially during periods with high watering manganese and boron can become too high in the crop very quickly, then toxicity symptoms like leaf burning and faster deterioration of the crop can occur. In warm weather and high watering 8-10 μmol boron and 10-12 μmol manganese are sufficient.

Monitor the nutritional status of the crop on a regular basis by taking water- and leaf samples and adjust the composition of the nutrient solution based on this.

Points of attention Furore

A potassium-calcium ratio of about 0.75 in the nutrient solution is sufficient from the moment of planting until the first fruit set in order to build-up sufficient calcium levels at the start.

Furore takes up calcium very easy, this is why a magnesium deficiency can occur quicker in comparison with other varieties. Feeding 1.5 mmol/liter magnesium at the start and 1.0-1.2 mmol/liter magnesium during production is recommended. Make sure that it does not become too low in case the drip EC is being lowered.

Standard nutrient solution Furore from planting until first fruit set:

mS/cm		Mmol/liter								$\mu\text{mol/liter}$					
EC	K	Ca	K/Ca	Mg	NH ₄	NO ₃	Cl	S	P	Fe	Mn	Zn	B	Cu	Mo
1,4	3,00	4,00	0,75	1,50	0,00	10,00	0,00	1,60	0,80	50	20	12	15	1,25	1,00

More potassium is needed from the moment the first fruits are setting, then the potassium-calcium ratio should go up to 1.0.

Standard nutrient solution Furore from first fruit set and during production.

mS/cm		Mmol/liter								$\mu\text{mol/liter}$					
EC	K	Ca	K/Ca	Mg	NH ₄	NO ₃	Cl	S	P	Fe	Mn	Zn	B	Cu	Mo
1,4	3,70	3,70	1,00	1,20	0,50	10,00	0,00	1,60	0,80	40	10	10	10	1,25	1,00

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Compared to other varieties Furore is more generative and not often too vegetative, ammonium can be used in order to make sure that the crop keeps inducing sufficient new leaf positions and side crowns. Use ammonium in a range of 0.25-1.0 mmol/liter, at too high dosages the ammonium can reduce the drip water pH and damage the roots. Define the amount of ammonium to be used by taking the crop balance, flower mappings and weather conditions into account.

Tank filling Furore

Tanks are 100x concentrated and calculated at an EC of 1,4 mS/cm, based on rainwater. Corrections should be made in case well water is being used.

From planting until fruit set

A-tank 1000 liter		B-tank 1000 liter	
Calcium nitrate	86,4 kg	Mono potassium phosphate	10,9 kg
		Magnesium sulphate	36,9 kg
Fe-DTPA 6%	4,7 kg	Potassium sulphate	1,7 kg
		Potassium nitrate	20,2 kg
		Manganese sulphate 32,5%	340 gram
		Zinc sulphate 23%	345 gram
		Borax	145 gram
		Copper sulphate 25%	31 gram
		Sodium molybdate 40%	24 gram

From fruit set and during production

A-tank 1000 liter		B-tank 1000 liter	
Calcium nitrate	79,9 kg	Mono potassium phosphate	10,9 kg
		Magnesium sulphate	29,5 kg
Fe-DTPA 6%	3,7 kg	Potassium sulphate	7,0 kg
		Potassium nitrate	21,2 kg
		Manganese sulphate 32,5%	170 gram
		Zinc sulphate 23%	290 gram
		Borax	95 gram
		Copper sulphate 25%	31 gram
		Sodium molybdate 40%	24 gram

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