

JR CropTech Flower 0-21-26 Application Rate Chart

DIRECTIONS FOR USE:

First, select the desired target EC for the final nutrient solution from the green column on the far left.

Hand Mixing: Weigh and add the CropTech Flower, Calcium Nitrate, and Calcium Chloride based on the blue columns. For example, to make 100 gallons of nutrient solution with a 2.7 EC, add 625 grams of CropTech Flower (6.25g x 100gal), 312.5g Calcium Nitrate (3.125g x 100gal), and 31.25g Calcium Chloride (0.3125g x 100gal).

Dosing/Fertigation: See Stock Solution Directions at the bottom of the chart for instructions for mixing the stock solution tanks, then select the appropriate row from the yellow columns according to the type of fertigation system used and the desired EC target. Use the value shown as the set point for the both A and B injection channels/dosers of the fertigation equipment. The EC and PPM values shown indicate the resulting EC when the fertilizer is added to water with an initial EC of 0.0, such as water produced through Reverse Osmosis (RO) or distillation. When using water with a beginning EC greater than zero, the final solution EC will be the source water EC + EC from the chart below after adding fertilizers.

Final Nutrient Solution EC	PPM (500)	PPM (700)	Grams of Dry Fertilizer Powder to add per Gallon			Dosing Rate for Both A & B Stock Solutions (*see directions below)			
			CropTech Flower 0-21-26	Calcium Nitrate (15.5-0-0 w/ 19% Ca or 26% CaO)	Calcium Chloride (anhydrous, 34% Ca and 60% Cl)	Dosatron/MixRite (%)	Dosatron/MixRite (1:XXX ratio)	NetaFlex (gal/1000 gal)**	HE Anderson (mL/gal)
0.3	150	210	0.5	0.25	0.025	0.06%	1:1800	0.55	2
0.5	250	350	1.0	0.5	0.050	0.11%	1:900	1.10	4
0.7	350	490	1.5	0.75	0.075	0.17%	1:600	1.65	6
1.0	500	700	2.0	1.0	0.10	0.22%	1:450	2.20	9
1.4	700	980	3.0	1.5	0.150	0.33%	1:300	3.31	13
1.8	900	1260	4.0	2.0	0.20	0.44%	1:225	4.41	17
2.2	1100	1540	5.0	2.5	0.25	0.55%	1:180	5.51	21
2.6	1300	1820	6.0	3.0	0.30	0.66%	1:150	6.61	26
2.7	1350	1890	6.25	3.125	0.3125	0.69%	1:145	6.89	27
2.8	1400	1960	6.5	3.25	0.325	0.72%	1:140	7.17	28
3.0	1500	2100	7.0	3.5	0.35	0.77%	1:130	7.72	30
3.4	1700	2380	8.0	4.0	0.40	0.88%	1:113	8.82	34
3.5	1750	2450	8.25	4.125	0.4125	0.91%	1:110	9.09	35
3.6	1800	2520	8.5	4.25	0.425	0.94%	1:105	9.37	36
3.8	1900	2660	9.0	4.5	0.45	1.00%	1:100	9.92	38
4.0	2000	2800	9.5	4.75	0.475	1.05%	1:95	10.47	41
4.2	2100	2940	10.0	5.0	0.50	1.10%	1:90	11.02	43

***Stock Solution Directions:** JR CropTech Flower 0-21-26 is typically applied at a 2:1:0.1 ratio of CropTech Flower:Calcium Nitrate:Calcium Chloride (by weight). Therefore, when mixing stock concentrate solutions for injection via fertigation equipment, add and fully dissolve 2 lbs of CropTech Flower per gallon of stock solution being made to create the "Part A" stock solution. To make the "Part B" stock solution, mix in and fully dissolve 1 lb of calcium nitrate (15.5-0-0 19% Ca) **and** 0.1 lbs of calcium chloride (34% Ca, using a product that is made specifically for use as a plant fertilizer) per gallon of "Part B" stock solution being made. Inject both the Part A and Part B stock solutions at the exact same rate/percentage as each other to obtain the target EC. For example, injecting both Parts A and B into the irrigation water at a rate of 0.77% (aka 1:130) each will provide a final nutrient solution EC of 3.0 mS/cm. To adjust EC thereafter, increase or decrease both dosers/channels injection rates equally, making sure that they both are always set to identical rates as each other.

When making concentrated stock tanks, add 3/4 of the final water volume you plan to make, mix in all dry fertilizer going into that tank, then fill until you hit the target gallon mark. For example, if making a 100 gallon stock tank, you would add 75 gallons of water, then mix in 200 lbs of JR CropTech Flower 0-21-26, then fill the tank to the 100 gallon mark and agitate/mix until fertilizer is fully dissolved. If fertilizer powder is added to 100 gallons of water, the volume that the fertilizer takes up will make the final stock solution volume over 100 gallons, making a more diluted stock solution than desired, which affects the dosing ratio/percentage is needed.

***IMPORTANT:** NEVER MIX JR CROPTECH FLOWER 0-21-26 WITH OTHER PRODUCTS THAT CONTAIN CALCIUM IN CONCENTRATED STOCK TANKS! This is the reason for the typical Part A + Part B configuration and the need for at least two dosing channels/dosers. Mixing any concentrated phosphate or sulphate with concentrated calcium will cause calcium phosphate or calcium sulphate precipitation, which can cause clogging in irrigation systems.

** Rotameter set point/flow rate must be set according to both desired injection rate and the flow rate exiting the NetaFlex or similar fertigation system. For help figuring out the right setting, see the JR CropTech Nutrient Calculator, NetaFlex installation/user manual, or speak with a professional experienced in the use of those types of venturi-based fertigation systems.