JR CropTech Veg 9-17-28 Application Rate Chart

DIRECTIONS FOR USE:

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 Veg and Calcium Nitrate solution according to the amount shown in the blue columns. For example, to make 100 gallons of nutrient solution with a 2.5 EC, add 500g of Croptech Veg (5g x 100gal) and 380g of Calcium Nitrate (3.8g 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 Veg 9-17-28	Calcium Nitrate (15.5-0-0 w/ 19% Ca or 26% CaO)	Dosatron/MixRite (%)	Dosatron/MixRite (1:XXX ratio)	NetaFlex (gal/1000 gal)**	HE Anderson (mL/gal)
0.5	250	350	1.0	0.8	0.110%	1:907	1.10	4.3
1.0	500	700	2.0	1.5	0.220%	1:454	2.20	8.5
1.5	750	1050	3.0	2.3	0.331%	1:302	3.31	13
2.0	1000	1400	4.0	3.0	0.441%	1:227	4.41	17
2.2	1100	1540	4.4	3.3	0.485%	1:206	4.85	19
2.4	1200	1680	4.8	3.6	0.529%	1:189	5.29	20.5
2.5	1250	1750	5.0	3.8	0.551%	1:181	5.51	21.4
2.6	1300	1820	5.2	3.9	0.573%	1:174	5.73	22.2
3.0	1500	2100	6.0	4.5	0.661%	1:151	6.61	25.6
3.2	1600	2240	6.4	4.8	0.705%	1:142	7.05	27.3
3.5	1750	2450	7.0	5.3	0.772%	1:130	7.72	30.0
4.0	2000	2800	8.0	6.0	0.882%	1:113	8.82	34.2

***Stock Solution Directions:** JR CropTech Veg 9-17-28 is typically applied at a 1:0.75 ratio of CropTech Veg:Calcium Nitrate (by weight). Therefore, when mixing stock concentrate solutions for injection via fertigation equipment, add and fully dissolve 2 lbs of CropTech Veg 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 1.5 lbs of calcium nitrate (15.5-0-0 19% Ca) 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 0.551% (aka 1:181) each will provide a final nutrient solution EC of 2.5 mS/cm. To adjust EC thereafter, increase or decrease both dosers/channels injection rates equally, making sure that they are both always set to identical injection 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 Veg 9-17-28, then fill the tank to the 100 gallon mark with water and agitate/mix until fertilizer is fully dissolved. If fertilizer powder is added to a full 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 that is needed.

***IMPORTANT:** NEVER MIX JR CROPTECH VEG 9-17-28 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.