



# CHLORIDE



### Chloride can be deficient in:

- Areas of high rainfall and well drained soils, Chloride may be leached from soil profile
- Areas where muriate of potash fertilizer is not regularly applied, Chloride deficiencies can occur
- Chloride can be antagonistic with nitrate, sulfate, boron, and molybdenum, therefore an excess of one can decrease the availability of another

### Chloride functions in the plant:

- Essential (working in tandem with K) to the proper function of the plants stomatal openings, thus controlling internal water balance
- Functions in photosynthesis, specifically in water splitting system
- Functions in cation balance and transport within the plant
- Research shows that Chloride diminishes effects of fungal infections in a currently undefined, way

### Common symptoms of Chloride deficiency are:

- Early symptoms are a wilting or leaf rolling and occur in more susceptible crops
- Symptoms begin at the leaf tips and margins moving towards the center of the leaf
- Yellowing, mottled yellowing or bronzing are often present in severe moisture stress conditions

Chloride is an important nutrient for all crops.

The following crops may show a high response to a Chloride application:

*Alfalfa • Broccoli • Brussel Sprouts • Cabbage • Cauliflower • Lettuce • Oil Palm  
Potato • Small Grains • Sugar Beets • Table Beets • Tomato*

Always soil test before any recommendations are finalized.

*As crop yields continue to increase, we are mining the soils of important nutrients required for growth. We need to minimize the loss of nutrients, like Chloride, by feeding the soil with a broadcast application of a Rainbow, Super Rainbow, or International grade. We can also formulate an analysis including Chloride for your specific crop needs. Every granule will include Chloride for better distribution and ability for crop uptake.*

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Precision Feeding • Balanced Nutrition • Complete Micronutrient Delivery  
• Increased Yield • Improved Crop Quality



### Americus Grades & Analysis

GRADE			TOTAL	WS								WS	MAX.	NITRATE
N	P	K	Mg	Mg	Ca	S	B	Cu	Fe	Mn	Mn	Zn	Cl	N
<b>Super Rainbow™</b>														
16	4	8	1.00	1.00		12.00	.030		3.00	.30	.001	.10	6.00	1.00
10	10	10	2.00	2.00	3.00	12.00	.070			.25	.001	.10	6.00	.50
5	20	20	2.00	2.00		4.00	.130			1.00	.001	.30	15.00	
6	6	18	4.00	4.00	4.00	10.00	.050		.50	.30	.001	.10	3.00	3.00
5	22	6	3.00	3.00	5.00	8.00	.500		1.00	2.00	.001	.60	3.00	
5	12	12	3.00	3.00	6.00	7.00	.150		.20	.40	.001	.30	2.00	2.00
4	8	12	4.00	4.00	6.00	8.00	.030			.20	.001	.10	1.50	2.00
3	9	18	2.00	2.00	6.00	8.00	.130			1.00	.001		14.00	
<b>Rainbow™</b>														
14	4	14	1.00	1.00		12.00	.100		1.00	.25	.001	.10	12.00	.50
10	5	25	1.00	1.00		6.00				1.50	.001	.25	22.00	1.25
6	12	18			5.00	10.00	.050		.25			.05	2.50	
5	15	30	1.00	1.00		4.00	.100			.50	.001	.15	26.00	
5	10	15	1.00	1.00	7.00	3.00	.100			.25	.001	.10	12.00	
<b>International</b>														
13	13	13				10.00			.10				12.00	.50
10	10	10				8.00			.20				9.00	.50
5	10	30				3.00	.030		.20	1.00	.001	.10	26.00	
5	10	15			8.00	6.00							13.00	.50

### Carolina Grades & Analysis

GRADE			TOTAL	WS								WS	MAX.	NITRATE
N	P	K	Mg	Mg	Ca	S	B	Cu	Fe	Mn	Mn	Zn	Cl	N
<b>Super Rainbow™ Tobacco</b>														
13	0	14	3.00	3.00		14.00	.033			.10	.001	.10	2.00	2.60
6	12	18	3.00	3.00	2.00	8.00	.033		.10	.10	.001	.10	3.00	3.00
6	6	18	4.00	4.00	4.00	10.00	.050		.50	.30	.001	.10	3.00	3.00
6	3	18	4.00	4.00	4.00	10.00	.033		.10	.10	.001	.10	3.00	3.00
<b>Super Rainbow™ Sweet Potato</b>														
6	3	18	2.00	2.00	5.00	9.00	.200		.10	1.00	.001	.20	13.00	
<b>Super Rainbow™</b>														
3	7	28	3.00	.001		8.00	.250			1.50	.001	.50	21.00	
<b>Rainbow™ Tobacco</b>														
8	16	24	1.50	1.50		6.00	.033			.10	.001	.10	4.00	4.00
8	8	24	2.00	2.00	1.00	7.00	.033		.10	.10	.001	.10	4.00	4.00
<b>Rainbow™ Sweet Potato</b>														
8	4	24	1.00	1.00		6.00	.150		.25	.12	.001	.08	20.00	
<b>Rainbow™</b>														
14	4	14	1.00	1.00		12.00	.100		1.00	.25	.001	.10	12.00	.50
<b>International</b>														
5	10	30				3.00	.30		.20	1.00	.001	.10	26.00	

### Florence Grades & Analysis

GRADE			TOTAL	WS								WS	MAX.	NITRATE
N	P	K	Mg	Mg	Ca	S	B	Cu	Fe	Mn	Mn	Zn	Cl	N
<b>Super Rainbow™</b>														
13	13	13	2.00	2.00		9.00	.100		.10	.40	.001	.20	9.00	.70
<b>Rainbow™</b>														
15	5	10	1.00	1.00		15.00	.100		1.00			.10	8.00	.70
13	13	13	1.00	1.00		9.00	.050		.10	.20	.001	.10	10.00	.70
6	12	18			5.00	10.00	.050		.25			.05	2.50	
5	15	30	1.00	1.00		4.00	.100			.50	.001	.15	26.00	
5	8	21	1.00	1.00		10.00	.350		.10			1.40	18.00	
<b>International</b>														
13	13	13				10.00			.10				12.00	.50
9	10	30				3.00	.030		.20	1.00	.001	.10	26.00	

Note: Some of these grades may be seasonal. Please contact your sales representative for availability.