

Chapter 9

PRODUCT TITRATION & PROPORTIONING



TITRATION

Titration is the process by which we determine the strength of a cleaning solution. This test will indicate the ratio of product to water in this mixed solution. Knowing this ratio is critical when cleaning vehicles in a Touchless® Wash Process.

Simoniz® USA provides the following two Test Kits for use in titration tests:

STEP ONE TEST KIT

Measures the strength of cleaning solutions made up of low pH or acidic detergents.

Step One Test Kit Titration Procedures

1. Collect sample of mixed wash solution. Always test the solution at the strength at which it is applied to the vehicle.
2. Allow time for foam to dissipate.
3. Fill the five-millimeter vial (tall & thin) completely with sample.
4. Transfer the measured sample to the larger vial.
Note: For Simoniz® products Touchless®, Touchless® LPH & Touchless® NC, add 1 full vial of fresh water to solution to be tested.
5. Add four drops of Indicator Solution to the vial and gently swirl.
Note: solution will not change color.
6. Add Titration Solution to the vial one drop at a time and gently swirl with each drop. Count the number of drops it takes until the solution completely turns purple.
7. This is the number of drops to use when referring to the Titration Chart and a product's strength.

STEP TWO TEST KIT

Measures the strength of cleaning solutions made up of high pH or alkaline products.

Step Two Test Kit Titration Procedures

1. Collect sample of mixed wash solution. Always test the solution at the strength at which it is applied to the vehicle.
2. Allow time for foam to dissipate.
3. Fill the five-millimeter vial (tall & thin) completely with sample.
4. Transfer the measured sample to the larger vial.
5. Add three drops of Indicator Solution to the vial and gently swirl.
Note: solution should turn green.
6. Add Test Solution to the vial one drop at a time and gently swirl with each drop. Count the number of drops it takes until the solution completely turns a bright orange.
7. This is the number of drops to use when referring to the Titration Chart and a product's strength.

Product Titration & Proportioning

PRODUCT TITRATION CHART

STEP 1 TEST KIT RESULTS

PRODUCT	1/50	1/75	1/100	1/125
PRIME PAK FOAM BRITE	3	-	-	-
STEP ONE	16	11	8	6
TOUCHLESS	50	35	25	20
TOUCHLESS LPH	39	29	19	15
TOUCHLESS NC	28	19	14	11
PRODUCT	1/100	1/200	1/300	
MAGIC LUSTRE	15	7	3	
MAGIC LUSTRE NC	N/A	N/A	N/A	

STEP 2 TEST KIT RESULTS

PRODUCT	1/50	1/75	1/100	1/125
APPEAL	12	9	6	5
BREAKTHROUGH	12	9	6	5
CRUSH PLUS	4	-	-	-
GLIDE	10	8	5	4
PLUS	26	17	13	10
PREP	15	10	8	6
PRIME PAK PRESOAK	24	19	14	11
HONORABLE DISCHARGE	6	4	3	-
FC ₃ PREP	10	7	5	4
PRODUCT	1/5	1/10	1/15	
BRAKE AWAY	360	180	120	

Product Titration & Proportioning

The charts in this section contain proportioning information for the products in this manual that need to be diluted prior to their use. The following information will help you in utilizing these charts.

Proportioning Ratios - The ratios expressed in these pages and throughout the book place the amount of water first and product second. For example, the ratio of 120/1 means 120 parts water and 1 part product. In order to find the amount of water being used in an application, you must determine the total water flow through each nozzle and multiply it by the total number of nozzles. Here are a few key numbers to remember. There are 128 ounces in a gallon of water and 29.573 milliliters in a fluid ounce.

Recommended Tips - Please note that the following charts recommend one or two hydrominder tips for the proper dilution of most products. You should consult the hydrominder tip chart when you are working with a product where more than one tip is recommended. In many cases the two tips listed represent only the high and low dilution ranges. There may be tips between these two that can be utilized for product proportioning.

Single And Double Dilution - The following charts offer single step dilution recommendations for the listed products. These

single step dilutions are also final dilutions in that once the product is diluted it is ready to be applied to the vehicle. Some equipment systems utilize double dilution equipment, which simply means the product is diluted twice and in which case an adjustment must be made relative to the tips recommended in these charts. The following example should help in adjusting to a double dilution system.

PRODUCT A Recommended dilution - 225 parts water/1 part product. In a single step dilution system you use the recommended tip, dilute the product once and apply. For a double dilution system both of the dilutions have a total 225 parts water/1 part product. For example, the first dilution may be 20 part water/1 part product resulting in 21 total parts. The second dilution is determined by dividing the final dilution of 225 by the number of parts resulting from the first dilution (in this example 21) $225 \div 21 = 11$. The second dilution would be 11 parts water/1 part product.

POWDERS - Unless otherwise noted, stock solutions of powders that will be further diluted (such as presoaks) should be at a rate of 3/4 lb. of powder per gallon of stock solution.

PRODUCT PROPORTIONING CHART - PRESOAKS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				DEMA BLUE-WHITE
			506/511	515	525/530	546/551	
APPEAL	Friction Wash	80 - 150 / 1	Yellow-Purple	Pink	Green-Brown	Blue-Tan	1-1.5oz.
	Touchless	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	2-4oz.
	In-Bay Auto	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	3-5oz.
CORRECT	Friction Wash	20 - 40 / 1	White-Green	Green-Yellow	Beige-Red	Black-Beige	
	Touchless		Black-Beige	Red-Blue	Grey-Black	No Tip-Grey	
	In-Bay Auto		Black-Beige	Red-Blue	Grey-Black	No Tip-Grey	
DREAM	Friction Wash	20 - 40 / 1	White-Green	Green-Yellow	Beige-Red	Black-Beige	
	Touchless		Black-Beige	Red-Blue	Grey-Black	No Tip-Grey	
	In-Bay Auto		Black-Beige	Red-Blue	Grey-Black	No Tip-Grey	
FOAMY PREP	Friction	80 - 150 / 1	Yellow-Purple	Pink	Green-Brown	Blue-Tan	1-1.5oz.
	Touchless	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	2-4oz.
	In-Bay Auto	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	3-5oz.
GLIDE	Friction	80 - 150 / 1	Yellow-Purple	Pink	Green-Brown	Blue-Tan	1-1.5oz.
	Touchless	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	2-4oz.
	In-Bay Auto	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	3-5oz.
PREP	Friction	80 - 150 / 1	Yellow-Purple	Pink	Green-Brown	Blue-Tan	1-1.5oz.
	Touchless	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	2-4oz.
	In-Bay Auto	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	3-5oz.
STEP ONE	Touchless	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	Blue-Tan	2-4oz.
	In-Bay Auto	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	Blue-Tan	3-5oz.
SUPER NATURAL	Touchless	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	2-4oz.
	In-Bay Auto	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	3-5oz.
ULTRA	Prep Guns	200 - 300 / 1	Pink		Yellow-Purple	Orange-Brown	1-2oz.
	Arch	100 - 200 / 1	Purple	Pink	Green-Yellow	Blue-Green	1-2oz.

PRODUCT PROPORTIONING CHART - HIGH FOAM DETERGENTS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				DEMA BLUE-WHITE
			506/511	515	525/530	546/551	
HI LITE	Foamer-Cloth	100 - 150 / 1	Yellow-Purple	Pink	Green-Orange	Blue-Tan	Draw Straight 1-1.5oz.
LEMON DROPS	Foamer-Cloth	150 - 200 / 1	Purple		Orange-Yellow	Tan-Green	Draw Straight .75-1oz.
MAGIC LUSTER	Foamer-Cloth	175 - 225 / 1	Purple-Pink		Brown-Purple	Tan-Orange	Draw Straight .5-.75oz.
MAGIC LUSTER NC	Foamer-Cloth	175 - 225 / 1	Purple-Pink		Brown-Purple	Tan-Orange	Draw Straight .5-.75oz.
SPECIAL	Foamer-Cloth	80 - 120 / 1	Yellow-Purple	Pink	Green-Orange	Blue-Tan	Draw Straight 1-1.5oz.
WETTING AGENT							
SUPER FOAM	Foamer-Cloth	100 - 150 / 1	Yellow-Purple	Pink	Green-Orange	Blue-Tan	Draw Straight 1-1.5oz.
SUPER SUDS	Foamer-Cloth	175 - 250 / 1	Pink		Brown-Purple	Tan-Brown	Draw Straight .75-1oz.
SUPREME	Foamer-Cloth	150 - 200 / 1	Purple		Orange-Yellow	Tan-Green	Draw Straight .75-1oz.
TR DETERGENT	Foamer-Cloth	80 - 120 / 1	Yellow-Purple	Pink	Green-Orange	Blue-Tan	Draw Straight 1-1.5oz.

PRODUCT PROPORTIONING CHART - WASH & WAX PRODUCTS (with Carnauba)

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				DEMA BLUE-WHITE
			506/511	515	525/530	546/551	
AUTO FOAM	Foamer-Cloth	75 - 125 / 1	Brown-Purple	Pink	Tan-Green	White-Tan	1-1.25oz.
CONDITIONERS	Triple Foam	75 - 125 / 1	Brown-Purple	Pink	Tan-Green	White-Tan	.75-1oz.
Blue-Green-Red	Arch						
LUSTER SHINE	Foamer-Cloth	125 - 175 / 1	Purple	Pink	Green-Orange	Blue-Green	.75-1oz.

PRODUCT PROPORTIONING CHART - DRYING AGENTS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				511 WITH ULTRA LEAN	DEMA BLUE-WHITE
			506/511	515	525/530	546/551		
BEAD UP	Dry Agent Arch	300 - 350 / 1				Brown	Pink	.50-.75oz.
ENVIRO SEAL	Dry Agent Arch	200 - 250 / 1	Pink		Yellow-Purple	Orange		.75-1oz.
FAST BREAK	Dry Agent Arch	125 - 175 / 1	Purple		Orange-Yellow	Tan-Green		1.25-1.5oz.
FC3 DRYING AGENT	Dry Agent Arch	250 - 350 / 1	Pink		Purple	Orange-Brown	Pink	.50-.75oz.
MAXI DRI	Dry Agent Arch	275 - 325 / 1			Purple-Pink	Brown	Pink	.75-1oz.
SPRAY GLOSS	Dry Agent Arch	200 - 275 / 1	Pink		Yellow-Purple	Orange		.75-1oz.
SUPPER STRIPPER	Dry Agent Arch	100 - 150 / 1	Yellow-Purple	Pink	Green-Brown	Blue-Tan		1.25-1.5oz.
SUPER DRI	Dry Agent Arch	225 - 275 / 1	Pink		Purple	Orange-Brown		.75-1oz.

PRODUCT PROPORTIONING CHART - POLISHES AND SEALANTS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				511 WITH ULTRA LEAN	DEMA BLUE-WHITE
			506/511	525/530	546/551			
BLUE DIAMOND	Foam Polish	125 - 150 / 1	Purple	Green-Orange	Tan		.50-.75	
DRI BRITE	Dry Agent Arch	225 - 275 / 1	Pink	Purple	Orange-Brown		.75-1oz.	
POLY CLEAR Blue-Green- Pink-Yellow	Triple Foam or Foam Polish	150 - 200 / 1	Purple	Orange-Brown	Tan-Green		.50-.75oz.	
UVP	Foam Polish	150 - 200 / 1	Purple	Orange-Yellow	Tan-Green		.50-.75oz.	
POLY SEALANT	Sealer Arch	200 - 300 / 1	Pink	Yellow-Purple	Orange-Brown		.75-1oz.	
PRESSURE POLY GLAZE	Sealer Arch	200 - 300 / 1	Pink	Yellow-Purple	Orange-Yellow		.75-.1oz.	
	Pressure Arch	400 - 500 / 1		Pink	Yellow	Pink-Lt. Purple	1.25-1.75oz.	
SILIFOAM	Triple Foam	125 - 150 / 1	Purple	Orange-Brown	Tan		1oz.	
	Foam Polish	125 - 150 / 1	Purple	Orange-Brown	Tan	Pink-Lt. Purple	1oz.	

PRODUCT PROPORTIONING CHART - WHITEWALL CLEANERS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS			
			506/511	515	525/530	546/551
6-117A	CTA	.25-.75lbs / gal				
206B	CTA	.25-.75lbs / gal				
BLAST	Manual	1/1		No Tip-Black		
CORRECT	CTA	.50-.75lbs / gal				
CTA	CTA	8 - 15 / 1	Beige	White-Tan		
FOAMY WHITEWASH	CTA	4 - 10 / 1	No Tip-Beige	Beige-White		
LIQUID WHITEWALL CLEANER	Manual	RTU				
RE SOLV	CTA	2 - 3 / 1		Black		
	Manual	2 - 3 / 1				
SNOW WHITE	CTA	.25-.75lbs / gal				
SPECIAL SOLVENT	Booster	50 - 100 / 1	Green-Yellow	Purple-Pink	White-Green	Red-Blue
SUPER CYCLONE	CTA	8 - 15 / 1	Black-Beige	Red-Blue	Grey-Black	No Tip-Black
SUPER DAZZLE	CTA	.25-.75lbs / gal				

PRODUCT PROPORTIONING CHART - WHEEL & RIM CLEANERS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS	
			506/511	515
BRAKE AWAY	Automatic	2 - 4 / 1		Beige-Red
	Manual	2 - 4 / 1		Beige-Red
DUST BUSTER	Automatic	2 - 4 / 1	No Tip-Black	Black-Red
PLATINUM	Automatic	4 - 6 / 1	No Tip-Beige	Beige-Blue
RAGE	Automatic	4 - 6 / 1	No Tip-Beige	Beige-Blue
RE SOLV	Automatic	2 - 3 / 1		Black-Beige
	Manual	2 - 3 / 1		Black-Beige
SUPER SPOKE CLEAN	Automatic	4 - 6 / 1	No Tip-Beige	Beige-Blue
WHEEL BRITE	Automatic	2 - 4 / 1	No Tip	Black-Beige

PRODUCT PROPORTIONING CHART - PRIME PAKS - HIGH PRESSURE SPRAY AUTOMATIC

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS					DEMA BLUE-WHITE
			506/511	515	525/530	546/551	511 WITH ULTRA LEAN	
CLEAR COAT SEALER	Wax Cycle	800 - 1000 / 1				Pink	Red Purple-Lt. Orange	.5oz
MINUS	Presoak Cycle	100 - 200 / 1	Yellow-Purple	Pink	Green-Yellow	Blue-Green		2-3oz.
PLUS	Presoak Cycle	100 - 200 / 1	Yellow-Purple	Pink	Green-Yellow	Blue-Green		2-3oz.
PRESOAK	Presoak Cycle	125 - 175 / 1	Purple		Orange-Brown	Tan-Green		2-3oz.
RUST INHIBITOR	Undercarriage Spray	300 - 400 / 1				Brown-Yellow	Pink	.5-1oz.
TRIPLE FOAM-Red Green-Blue-Yellow	Triple Foam Cycle	175 - 225 / 1	Purple		Brown-Yellow	Tan-Green		.25oz.

PRODUCT PROPORTIONING CHART - PRIME PAKS - CONVEYOR AND ROLLOVER PRODUCTS

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS					DEMA BLUE-WHITE
			506/511	525/530	546/551	511 WITH ULTRA LEAN		
CLEAR COAT SEALER	Sealer Arch	500 - 800 / 1		Pink	Purple	Olive Green- Red Purple	.25oz.	
DRYING AGENT	Dry Agent Arch	600 - 1000 / 1			Purple-Pink	Red Purple- Light Orange	.25oz.	
FOAM BRITE	Foamer-Cloth	500 - 800 / 1		Pink	Purple	Olive Green- Red Purple	.25oz.	
PRESOAK	Presoak Arch	200 - 300 / 1	Pink	Yellow-Purple	Orange-Brown		.25-.5oz.	
RUST INHIBITOR	Undercarriage	300 - 400 / 1			Brown-Yellow	Pink	.5-1oz.	
TRIPLE FOAM-Blue Green-Red-Yellow	Triple Foamer	175 - 225 / 1	Purple	Brown-Yellow	Tan-Green		.25oz.	

PRODUCT PROPORTIONING CHART - SELF SERVICE PRESOAKS (SINGLE STEP DILUTION)

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				
			506/511	515	525/530	546/551 ULTRA LEAN	DEMA BLUE-WHITE
BLUE LIQUID SPRAY	Presoak	60 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue	1-1.5oz.
KLEEN GREEN	Presoak	20 - 30 / 1	White-Blue	Green-Brown	Beige-Red	Black-Beige	3-5oz.
CORRECT	Presoak	20 - 30 / 1	White-Blue	Green-Brown	Beige-Tan	Black-Beige	3-5oz.

**PRODUCT PROPORTIONING CHART -
SELF SERVICE HIGH PRESSURE DETERGENTS (SINGLE STEP DILUTION)**

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS			
			506/511	515	525/530	546/551
APPEAL	High Pressure	125 - 150 / 1	Purple		Orange-Brown	Tan
CORRECT	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
DREAM	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
KLEEN POWER	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
NON PHOS	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
POWER WASH	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
OLD GOLD	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
SPECIAL POWER KLEEN	High Pressure	40 - 60 / 1	Green-Orange	Yellow-Purple	White-Blue	Red-White
WASH N' SHINE	High Pressure	200 - 300 / 1	Pink		Purple	Orange-Brown

**PRODUCT PROPORTIONING CHART -
SELF SERVICE FOAM BRUSH (SINGLE STEP DILUTION)**

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS			
			506/511	515	525/530	546/551
BRUSH WITH EASE	Foam Brush	75 - 125 / 1	Brown-Purple	Pink	Tan-Green	Blue
CHERRY PINK BUBBLES	Foam Brush	75 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue
PINK MAGIC	Foam Brush	75 - 100 / 1	Orange-Yellow	Pink	Tan-Green	White-Blue
WASH N' SHINE	Foam Brush	100 - 125 / 1	Brown-Purple	Pink	Tan-Green	Blue

**PRODUCT PROPORTIONING CHART -
SELF SERVICE WHITEWALL CLEANER (SINGLE STEP DILUTION)**

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS		
			506/511	515	525/530
FOAMING LIQUID WHITEWALL	Whitewall Cycle	4 - 6 / 1	No Tip-Black	Beige-Red	No Tip
GOLDEN FOAMY WHITEWALL	Whitewall Cycle	4 - 6 / 1	No Tip-Black	Beige-Red	No Tip

**PRODUCT PROPORTIONING CHART -
SELF SERVICE POLISHES AND SEALANTS (SINGLE STEP DILUTION)**

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS			511 WITH ULTRA LEAN
			506/511	525/530	546/551	
CHERRY GLO	Wax Cycle	200 - 300 / 1	Pink	Yellow-Purple	Orange-Brown	
COIN-OP FOAM POLISH	Wax Cycle	200 - 300 / 1	Pink	Yellow-Purple	Orange-Brown	
LEMON GLO	Wax Cycle	200 - 300 / 1	Pink	Yellow-Purple	Orange-Brown	
PRESSURE POLY	Wax Cycle	250 - 350 / 1	Pink	Purple	Brown	Pink
SPRAY GLOSS	Wax Cycle	200 - 250 / 1	Pink	Yellow-Purple	Orange	

**PRODUCT PROPORTIONING CHART -
SELF SERVICE PRIME PAK ULTRA CONCENTRATES**

PRODUCT	APPLICATION	RATIO	HYDROMINDER TIPS				DEMA BLUE-WHITE
			506/511	525/530	546/551	511 WITH ULTRA LEAN	
SELF SERVE PRESOAK	Presoak	150 - 250 / 1	Purple-Pink		Brown-Purple	Tan-Green	
PINK CHERRY FOAM	Foam Brush	300 - 600 / 1			Pink	Brown-Purple	Pink- Olive Green
HIGH PRESSURE DETERGENT	High Pressure	400 - 800 / 1			Pink	Yellow-Purple	Light Purple Olive Green
TIRE WHITE	Whitewall Cycle	15 - 20 / 1	Red	Tan-Green	Beige	Black	Olive Green
BLUE FOAMING SPRAY WAX	Wax Cycle	500 - 800 / 1			Pink	Purple	Light Purple Olive Green

HYDROMINDER DILUTION CHART

MODEL TIP COLOR	MODEL 506 / 511	MODEL 515	MODEL 525 / 530	MODEL 546 / 551	MODEL 560 / 561
No Tip	4 / 1	1 / 1	4 / 1	6 / 1	10 / 1
Grey	5 / 1	1.2 / 1	6 / 1	10 / 1	20 / 1
Black	6 / 1	2 / 1	10 / 1	20 / 1	30 / 1
Beige	8 / 1	4 / 1	20 / 1	32 / 1	64 / 1
Red	17 / 1	6 / 1	35 / 1	48 / 1	128 / 1
White	23 / 1	9 / 1	52 / 1	67 / 1	144 / 1
Blue	25 / 1	10 / 1	55 / 1	96 / 1	173 / 1
Tan	36 / 1	13 / 1	70 / 1	144 / 1	218 / 1
Green	48 / 1	21 / 1	100 / 1	176 / 1	306 / 1
Orange	64 / 1	26 / 1	140 / 1	234 / 1	424 / 1
Brown	75 / 1	30 / 1	160 / 1	296 / 1	768 / 1
Yellow	90 / 1	38 / 1	190 / 1	416 / 1	896 / 1
Purple	120 / 1	50 / 1	250 / 1	596 / 1	930 / 1
Pink	240 / 1	100 / 1	530 / 1	1024 / 1	1024 / 1

Directions And Dilutions For Hydrominder Ultra Lean Tip Kit

Directions:

1. Replace existing hose barb on Hydrominder with 1/4" hose barb. This will hold the Ultra Lean Tips.
2. Determine appropriate dilution according to product and insert the small end of the colored tip into the hose barb.
3. Slide the tubing over the tip and hose barb.
4. Insert foot valve into other end of tubing and insert into Prime Pak box. A ceramic weight should be used for weighing.

If drawing the product through the tube becomes difficult, add a 6" to 8" piece of 3/8" tubing to the bottom of the 1/4" draw tube and remove fine screen from foot valve.

Parts List (Part No.)

- 1 – 1/4 inch x 7 foot Vinyl Tube (500870)
- 1 – Foot Valve (250020)
- 1 – 1/4 inch Hose Barb (black) (3401-R)
- 5 – Ultra Lean Tips (10027000 through 04)

For 511 Hydrominder 4 GPM

PART#	COLOR	DILUTION
10027000	Pink	355 / 1
10027001	Lt. Purple	465 / 1
10027002	Olive Green	530 / 1
10027003	Red Purple	880 / 1
10027004	Lt. Orange	1030 / 1

Dosatron Dilution Conversion Chart

RATIO	PERCENT	OZ/GALLON	55 GAL YIELD RATIO *	30 GAL YIELD RATIO *	5 GAL YIELD RATIO *
5:1	20.000%	25.60 oz/gal	275	150	25
6:1	16.667%	21.333 oz/gal	330	180	30
7:1	14.286%	18.286 oz/gal	385	210	35
8:1	12.500%	16.000 oz/gal	440	240	40
9:1	11.111%	14.222 oz/gal	495	270	45
10:1	10.000%	12.800 oz/gal	550	300	50
20:1	5.00%	6.400 oz/gal	1,100	600	100
25:1	4.00%	5.120 oz/gal	1,375	750	125
30:1	3.33%	4.267 oz/gal	1,650	900	150
32:1	3.13%	4.000 oz/gal	1,760	960	160
33:1	3.03%	3.879 oz/gal	1,815	990	165
40:1	2.50%	3.200 oz/gal	2,200	1,200	200
50:1	2.00%	2.560 oz/gal	2,750	1,500	250
60:1	1.68%	2.133 oz/gal	3,300	1,800	300
70:1	1.43%	1.829 oz/gal	3,850	2,100	350
80:1	1.25%	1.600 oz/gal	4,400	2,400	400
90:1	1.11%	1.422 oz/gal	4,950	2,700	450
100:1	1.00%	1.280 oz/gal	5,500	3,000	500
128:1	0.78%	1.00 oz/gal	7,040	3,840	640
150:1	0.68%	0.853 oz/gal	8,250	4,500	750
175:1	0.57%	0.731 oz/gal	9,625	5,250	875
190:1	0.53%	0.674 oz/gal	10,450	5,700	950
200:1	0.5	0.640 oz/gal	11,000	6,000	1,000
256:1	0.39%	0.50 oz/gal	14,080	7,680	1,280
300:1	0.33%	0.427 oz/gal	16,500	9,000	1,500
320:1	0.31%	0.400 oz/gal	17,600	9,600	1,600
350:1	0.29%	0.366 oz/gal	19,250	10,500	1,750
400:1	0.25%	0.320 oz/gal	22,000	12,000	2,000
500:1	0.20%	0.256 oz/gal	27,500	15,000	2,500
512:1	0.195%	0.250 oz/gal	28,160	15,360	2,560
600:1	0.167%	0.213 oz/gal	33,000	18,000	3,000
640:1	0.156%	0.200 oz/gal	35,200	19,200	3,200
700:1	0.143%	0.183 oz/gal	38,500	21,000	3,500
750:1	0.133%	0.171 oz/gal	41,250	22,500	3,750
800:1	0.125%	0.160 oz/gal	44,000	24,000	4,000
900:1	0.111%	0.142 oz/gal	49,500	27,000	4,500
1000:1	0.100%	0.128 oz/gal	55,000	30,000	5,000
1250:1	0.080%	0.102 oz/gal	68,750	37,500	6,250
1500:1	0.067%	0.085 oz/gal	82,500	45,000	7,500
2000:1	0.050%	0.064 oz/gal	110,000	60,000	10,000
3000:1	0.033%	0.043 oz/gal	165,000	90,000	15,000

NOTES & COMMENTS

The above "Yield Ratios" are based on the following criteria:

Dosatron series D26 pumps @ 15 clicks per 15 seconds = 3 GPM

Thirty seconds (30) of application time & water thin product viscosity

Forty pounds per square inch (40 psi.) of incoming water pressure