



Titration and Yield Chart

Product Name: **Glisten SC (4990)**
Product Form: **Solid**
Normality of Acid Titrant Used: **0.25 N**
Sample size: **10 mls.**
Container size: **8 pounds or 3.6 kgs.**

Desired Concentration		Number of Titrating Drops	ppm Active Alkalinity	Rinse Overflow *	
(ounces/gallon)	(grams/liter)			1.8	4.5
0.00	0.00	0	0	Racks Per Container**	
0.01	0.06	1	27	32653	13333
0.02	0.12	2	54	16327	6667
0.02	0.18	3	81	10884	4444
0.03	0.24	4	108	8163	3333
0.04	0.30	5	135	6531	2667
0.05	0.36	6	162	5442	2222
0.06	0.42	7	189	4665	1905
0.06	0.48	8	216	4082	1667
0.07	0.54	9	243	3628	1481
0.08	0.60	10	270	3265	1333
0.09	0.66	11	297	2968	1212
0.10	0.72	12	324	2721	1111
0.10	0.78	13	351	2512	1026
0.11	0.84	14	378	2332	952
0.12	0.90	15	405	2177	889
0.13	0.96	16	432	2041	833
0.14	1.02	17	459	1921	784
0.14	1.08	18	486	1814	741

(as liters/cycle)

(as gallons/cycle)

Light Soils:
5-6 drops

Medium Soils:
7-9 drops

Heavy Soils:
10-12 drops

** Rack yield is based on rinse overflow. Tank fill up was not taken into consideration nor was dispenser inefficiency. A single door tank type machine takes approximately 14 gallons to fill and may be refilled numerous times per day. This needs to be taken into account when calculating yield. A low estimate would be to calculate actual yields for tank style machines to be 70% of above numbers.

Titration Instructions:

Concentration: Secure 10 ml. of diluted detergent solution to be tested. Add 2-3 drops of Indicator Solution No. 2. If the product has titratable alkalinity, the solution will turn pink. While swirling the 10 ml. sample, add Titrating Solution No. 2 one drop at a time. Count the number of drops needed to turn solution clear. Compare the number of drops needed to turn solution clear to the titration values provided in the chart above.

Rinse Overflow is shown as a reference. The figure of .49 gallons per cycle is for comparison to an ADS Model ADC-44 and the figure of 1.2 gallons per cycle is for comparison to a Hobart AM-14.

