

Saturation Index Table

Temperature			Calcium Hardness		Total Alkalinity		Total Dissolved Solids	
°F	°C	Tf	PPM	Cf	PPM	Af	PPM	TDSf
32	0.0	0.0	25	1.0	25	1.4	less than 1000	12.1
37	2.89	0.1	50	1.3	50	1.7	1000 or more	12.2
46	7.8	0.2	75	1.5	75	1.9		
53	11.7	0.3	100	1.6	100	2.0		
60	15.6	0.4	125	1.7	125	2.1		
66	18.9	0.5	150	1.8	150	2.2		
76	24.4	0.6	200	1.9	200	2.3		
84	28.9	0.7	250	2.0	250	2.4		
94	34.4	0.8	300	2.1	300	2.5		
105	40.6	0.9	400	2.2	400	2.6		
			800	2.5	800	2.9		

Key: Tf - Temperature Factor Cf - Calcium Factor Af - Alkalinity Factor TDSf - Total Dissolved Solids Factor

This chart is also on page 69 of your Pool and Spa Operator Handbook. Use the chart to find the factor for each chemistry value. If your value is between 2 of the values on the table, then use the factor for the next highest value. For example, if the temperature is 79°F, use the factor for 84°F. Use the factors to find Saturation Index using the following formula:

$$\text{Saturation Index} = \text{pH} + \text{Tf} + \text{Cf} + \text{Af} - \text{TDSf}$$

Remember:

If your pool has Cyanuric Acid you need to use the Adjusted Total Alkalinity to find the alkalinity factor.

$$\text{Adjusted Total Alkalinity} = \text{Total Alkalinity} - (\text{Cyanuric Acid} / 3)$$