

CALCIUM SATURATION INDEX

$$\text{SI} = \text{pH} + \text{Temp}_f + \text{CH}_f + \text{CA}_f - \text{TDS}_f$$

pH as is
Temp factor
Calcium factor
Total Alkalinity Factor
Total Dissolved Solids factor

Temperature		Calcium Hardness Expressed as CaCO ₃		Carbonate Alkalinity	
°F	Tf	ppm	Cf	ppm	Af
32	0.0	25	1.0	25	1.4
37	0.1	50	1.3	50	1.7
46	0.2	75	1.5	75	1.9
53	0.3	100	1.6	100	2.0
60	0.4	125	1.7	125	2.1
66	0.5	150	1.8	150	2.2
76	0.6	200	1.9	200	2.3
84	0.7	250	2.0	250	2.4
94	0.8	300	2.1	300	2.5
105	0.9	400	2.2	400	2.6
		800	2.5	800	2.9

If an actual measurement is not found in the chart, use the next greatest value.

TDS Factor	
Less than 1,000 ppm	1,000 ppm or Greater
Subtract 12.1	Subtract 12.2