

Langelier Saturation Index

WATER TEMPERATURE		TOTAL ALKALINITY		CALCIUM HARDNESS	
°F	INDEX	ppm	INDEX	ppm	INDEX
37	0.1	25	1.4	25	1.0
46	0.2	50	1.7	50	1.3
53	0.3	75	1.9	75	1.5
60	0.4	100	2.0	100	1.6
66	0.5	125	2.1	125	1.7
76	0.6	150	2.2	150	1.8
84	0.7	200	2.3	200	1.9
94	0.8	250	2.4	250	2.0
105	0.9	300	2.5	300	2.1
		400	2.6	400	2.2
		800	2.9	800	2.5

TDS Factors

<p>Less than 1,000 ppm</p>	<p>1,000 ppm or greater</p>
<p>12.1</p>	<p>12.2</p>

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

Saturation Index pH as tested Temperature Factor Alkalinity Factor Calcium Factor TDS Factor

Test Results: pH _____ Temp _____ TA _____ CH _____ TDS _____

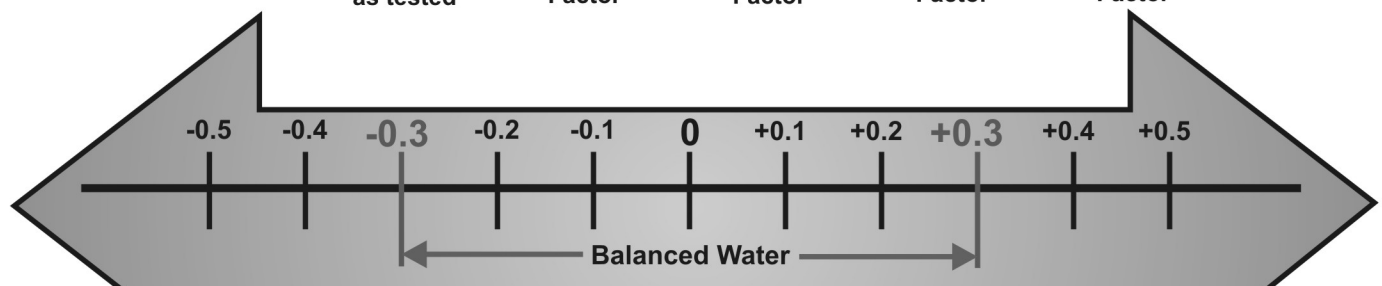
Example #1 SI = _____ + _____ + _____ - _____ = _____

pH as tested Temperature Factor Alkalinity Factor Calcium Factor TDS Factor

Test Results: pH _____ Temp _____ TA _____ CH _____ TDS _____

Example #2 SI = _____ + _____ + _____ - _____ = _____

pH as tested Temperature Factor Alkalinity Factor Calcium Factor TDS Factor



Index between -0.3 and +0.3 is balanced
 Index over +0.3 is increasingly more scale forming
 Index below -0.3 is increasingly more corrosive