



ADHESIVE ENGINEERING

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SATURATION INDEX GUIDELINES

Total balance is achieved by regular testing and adjusting pH, calcium hardness, total alkalinity and temperature.
 The saturation index equation reveals if the four parameters are “in balance” or causing damage to the facility through corrosion or scaling.

Use the equation and chart below to determine your pool water saturation index.

SATURATION INDEX = PF + CF + AF + TF – (12.1)

pH TEST	pH FACTOR PF	CALCIUM HARDNESS TEST PPM	CALCIUM FACTOR CF	TOTAL ALKALINITY TEST PPM	ALKALINITY FACTOR AF	TEMP DEGREES C	TEMP FACTOR TF
7.0	7.0	5	0.3	5	0.7	0-1	0.0
7.1	7.1	25	1.0	25	1.4	2-4	0.1
7.2	7.2	50	1.3	50	1.7	5-9	0.2
7.3	7.3	75	1.5	75	1.9	10-13	0.3
7.4	7.4	100	1.6	100	2.0	14-17	0.4
7.5	7.5	150	1.8	150	2.2	18-22	0.5
7.6	7.6	200	1.9	200	2.3	23-27	0.6
7.7	7.7	300	2.1	300	2.5	28-32	0.7
7.8	7.8	400	2.2	400	2.6	33-37	0.8
7.9	7.9	800	2.5	800	2.9	38-43	0.9
8.0	8.0	1000	2.6	1000	3.0	44-54	1.0

EXAMPLE: WATER TEST pH...7.5 CAL...300 ALK...100 TEMP...30
 PF CF AF TF
 INDEX FACTORS 7.5 2.1 2.0 0.7
 INDEX EQUATION 7.5 + 2.1 + 2.0 + 0.7 – 12.1 = +.2

-0.7	-0.6	-0.5	-0.4	-0.3	-0.2	-0.1	0	+0.1	+0.2	+0.3	+0.4	+0.5	+0.6	+0.7
CORROSIVE		IN BALANCE					SCALING							
POTENTIAL DANGER	MINOR ADJUST	OK	IDEAL	OK	MINOR ADJUST	POTENTIAL DANGER								