



Chemical Sanitizing

	Chlorine Bleach	Iodine	Quaternary Ammonium (Quats)
Minimum concentration ---for immersion ----for spray, wiping cloths or cleaning in place	50 ppm✦ 100 ppm△	12.5 ppm 25 ppm	200 ppm 400 ppm
Temperature of solution	75 °F – 115 °F	75 °F – 120 °F	Above 75 °F
Time for sanitizing ---for immersion ---for spray, wiping cloths or cleaning in place	1 minute follow manufacturers instructions	1 minute follow manufacturers instructions	1 minute, however some products require longer contact time; read label
pH (detergent residue raises pH of solution so rinse thoroughly first)	Must be below pH 8	Must be below pH 5.0	Most effective around pH 7 but varies with compound
Corrosiveness	Corrosive to some surfaces such as metals	Noncorrosive	Noncorrosive
Response to organic contamination in water	Quickly inactivated	Made less effective	Not easily affected
Response to hard water	Not Affected	Not Affected	Some compounds inactivated - read label. Hardness over 500 ppm is undesirable for some quats
Indication of strength of solution	Test kit required	Amber color indicates presence. Use test kit to determine concentration	Test kit required. Follow label instructions closely

- ✦ 1/2 tsp. of 5.25% sodium hypochlorite (chlorine bleach)
- △ 1 tsp. of 5.25% sodium hypochlorite (chlorine bleach)
- ✦ 1/4 tsp. of 6.0% sodium hypochlorite (chlorine bleach)
- △ 1/2 tsp. of 6.0% sodium hypochlorite (chlorine bleach)

- in 1 gallon water = 50 ppm
- in 1 gallon water = 100 ppm
- in 1 gallon water = 50 ppm
- in 1 gallon water = 100 ppm

- 1/2oz (2 tsp. or 1capful) of 5.25% sodium hypochlorite (chlorine bleach)
- 1 tsp. of 6.0% sodium hypochlorite chlorine bleach)

- in 1 gallon water = 200 ppm
- in 1 gallon water = 200 ppm

ppm = parts per million