



Suitability of Various Alloy Materials of Construction (Metals) for Handling Sodium Hypochlorite Service

Metals	Suitability
Stainless Steel 304	C/NR saturated at 70° F C 6-20% at 70° F C/NR 3-5% at 70° F A to 1% to 212° F, pits & pits on drying
Stainless Steel 316 & 317	B/NR saturated at 70° F A saturated to 200° F, slightly alkaline C 20% at 70° F C/NR 16-20% 86-140° F BC 10% at 70° F, pits A 6.3% to 100° F, pits A to 6% to 160° F, pits A to 1% to 212° F, crevice corrodes
Stainless Steel Carpenter 20Cb-3	B/NR 100% at 70° F C/NR 50% boiling C 20% 70-140° F A to 16% to 80° F A to 6% to 100° F, pits on drying
Hastelloy B	AB saturated to 140° NR 5-11% 70-90° F
Hastelloy C/Hastelloy C-276	AB 100% to 200° F A to 50% to 115° F A to 20% to 140° F
Nickel	NR 5-100% at 70° F A to 500 PPM to 77° F
Monel	NR 10-100% at 70° F B/NR 5% at 70° F A 500 PPM to 77° F

A <.002 in. per year (< .05 mm/yr.)

B <.020 in. per year (< .50 mm/yr.)

C <.050 in. per year (<1.27 mm/yr.)

NR >.050 in. per year or explosive (not recommended)