

HASTELLOY® B-3® Alloy

Phosphoric Acid

Conc. Wt.%	125°F	150°F	175°F	200°F	225°F	250°F	275°F	300°F	Boiling
	52°C	66°C	79°C	93°C	107°C	121°C	135°C	149°C	
10	-	-	-	-	-	-	-	-	0.07
30	-	-	-	-	-	-	-	-	0.07
50	-	-	-	0.03	-	-	-	-	0.09
60	-	-	-	0.03	-	-	-	-	0.14
65	-	-	-	-	-	-	-	-	-
70	-	-	-	0.02	-	0.08	-	-	0.21
75	-	-	-	-	-	-	0.04	-	-
80	-	-	-	0.02	-	0.09	0.05	-	0.04
85	-	-	-	0.02	-	0.07	0.04	0.08	0.1

All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.

Data are from Corrosion Laboratory Jobs 113-92, 31-94, and 47-97.

All tests were performed in reagent grade acids under laboratory conditions; field tests are encouraged prior to industrial use.

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Iso-Corrosion Diagram for B-3 Alloy in Phosphoric Acid

