

HASTELLOY® B-3® Alloy

Hydrochloric Acid

Conc. Wt.%	50°F	75°F	100°F	125°F	150°F	175°F	200°F	225°F	Boiling
	10°C	24°C	38°C	52°C	66°C	79°C	93°C	107°C	
1	-	-	0.07	0.11	0.18	-	0.21	-	0.01
1.5	-	-	-	-	-	-	-	-	-
2	-	-	0.1	0.16	0.21	-	0.26	-	0.04
2.5	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	-	0.11	0.19	0.25	-	0.3	-	0.08
7.5	-	-	-	-	-	-	-	-	-
10	-	-	0.13	0.2	0.24	-	0.29	-	0.13
15	-	-	0.1	0.18	0.23	-	0.28	-	0.21
20	-	-	0.1	0.15	0.21	-	0.3	-	0.29

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 37-92, 30-94, and 42-95.

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 Hydrochloric Acid

