

HASTELLOY® B-3® Alloy

Sulfuric Acid

Conc. Wt. %	75°F	100°F	125°F	150°F	175°F	200°F	225°F	250°F	275°F	300°F	350°F	Boiling
	24°C	38°C	52°C	66°C	79°C	93°C	107°C	121°C	135°C	149°C	177°C	
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	0.07	0.09	0.13	0.11	0.1	-	-	-	-	-	0.01
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	0.07	0.08	0.15	0.13	0.11	-	-	-	-	-	0.01
10	-	0.04	0.08	0.11	0.11	0.11	-	-	-	-	-	0.01
20	-	0.03	-	0.08	-	0.11	-	-	-	-	-	0.02
30	-	0.02	-	0.06	-	0.09	-	-	-	-	-	0.02
40	-	-	-	0.03	-	0.06	-	-	-	-	-	0.02
50	-	-	-	0.03	-	0.04	-	-	-	-	-	0.03
60	-	-	-	0.02	-	0.03	-	-	-	-	-	0.05
70	-	-	-	-	-	0.01	-	0.03	-	0.11	-	0.15
80	-	-	-	-	-	0.01	-	0.03	-	0.08	0.44	4.76
90	-	-	-	-	-	0.02	-	0.05	0.11	0.14	0.76	-
96	-	-	-	-	-	0.02	-	0.09	0.22	0.35	2.59	-

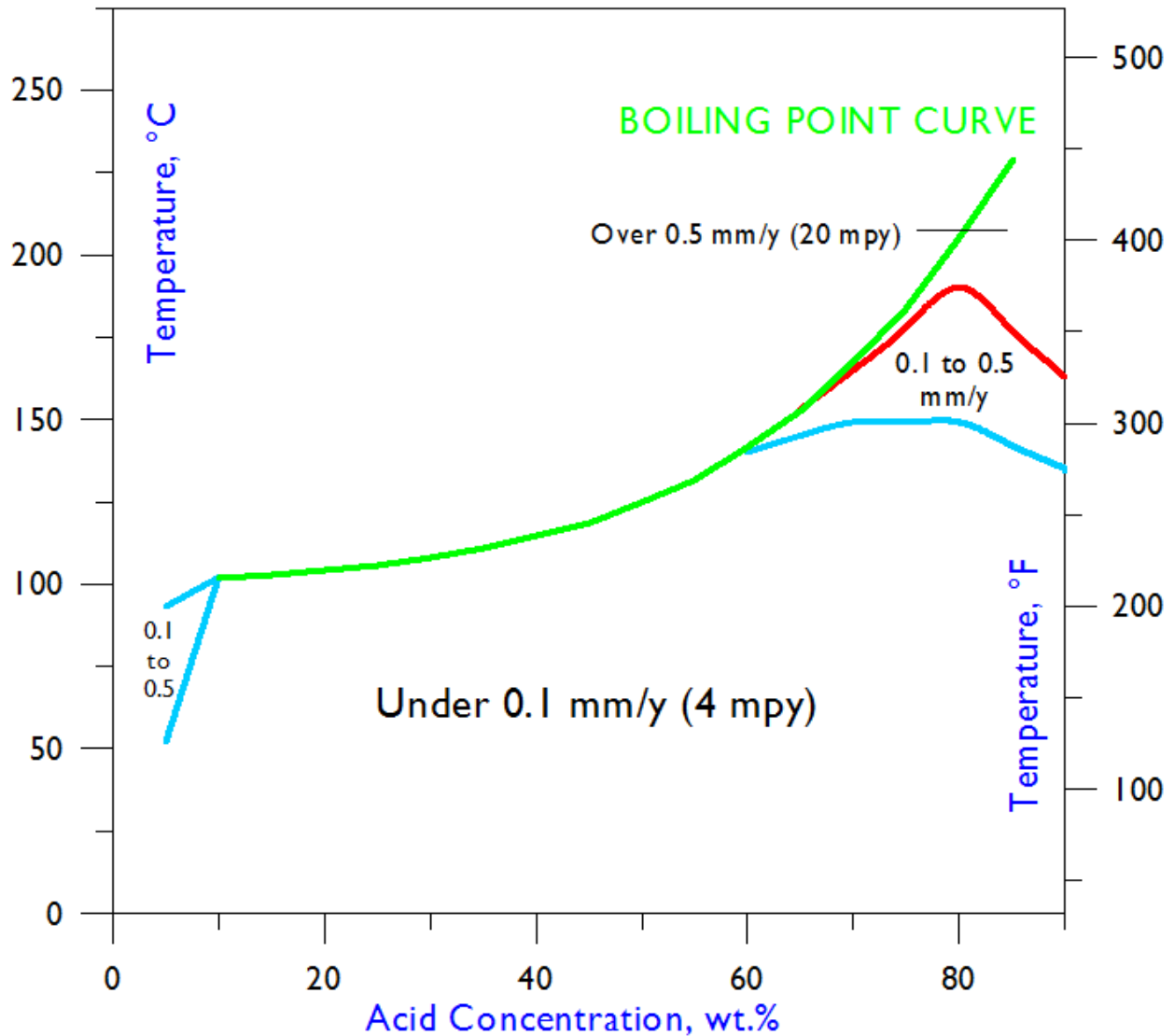
All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.

Data are from Corrosion Laboratory Jobs 37-92, 29-94, 47-94, 42-95, and 14-96.

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 Sulfuric Acid



When using this data, please refer to our disclaimer located at www.haynesintl.com