

HASTELLOY® HYBRID-BC1® 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	-	-	-	-	-	-	0.01	-	0.01
1.5	-	-	-	-	-	-	0.01	-	0.06
2	-	-	-	-	-	-	0.02	-	0.10
2.5	-	-	-	-	-	-	0.04	-	0.15
3	-	-	-	-	-	-	0.08	-	0.21
3.5	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	-	-	<0.01	0.02	0.08	0.31	-	0.45
7.5	-	-	-	-	-	-	-	-	-
10	-	-	0.02	0.13	0.27	0.38	0.53	-	-
15	-	0.04	0.12	0.21	0.28	0.44	0.57	-	-
20	-	0.04	0.12	0.18	0.29	0.45	0.68	-	-
25	-	0.03	0.10	0.17	0.27	0.58	0.72	-	1.67
30	-	0.02	0.08	0.14	0.25	0.42	0.71	-	1.80
37	-	0.01	0.04	0.09	0.18	0.38	0.71	-	1.85

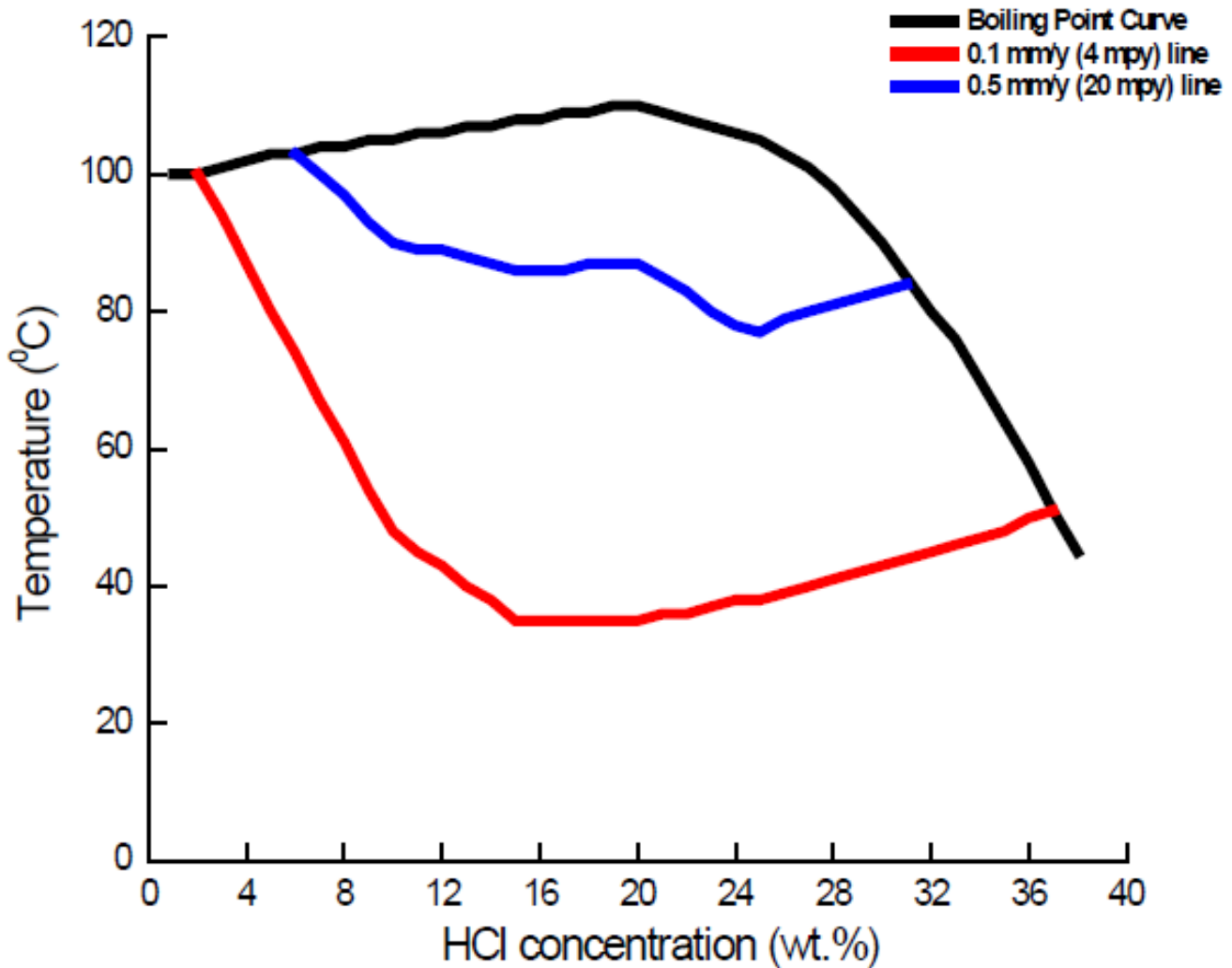
All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.

Data are from Corrosion Laboratory Job # 23-07, 3-08 and 9-14.

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 HYBRID-BC1® Alloy in Hydrochloric Acid



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