

## HASTELLOY® C-276 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	-	<0.01	-	-	-	0.33
1.5	-	-	-	-	-	-	-	-	0.76
2	-	-	-	-	0.01	0.02	0.57	-	1.37
2.5	-	-	-	-	-	0.03	0.89	-	2.09
3	-	-	-	-	0.01	0.42	1.18	-	2.34
3.5	-	-	-	-	-	0.57	1.26	-	2.43
4	-	-	-	-	0.02	0.67	1.37	-	2.92
4.5	-	-	-	-	0.37	0.68	1.72	-	3.34
5	-	<0.01	<0.01	0.02	0.34	0.75	1.70	-	3.67
7.5	-	-	0.03	0.31	0.53	0.94	-	-	-
10	-	0.05	0.18	0.32	0.43	1.18	2.79	-	5.91
15	-	0.05	0.17	0.33	0.61	1.21	2.38	-	6.46
20	-	0.04	0.14	0.29	0.58	1.10	2.33	-	6.10
25	-	0.04	0.12	0.27	0.50	1.00	1.47	-	8.32
30	-	0.03	0.11	0.24	0.47	0.89	1.15	-	6.55
35	-	0.02	0.06	0.15	-	0.71	-	-	6.27
37	-	0.01	0.07	0.10	0.18	0.69	-	-	6.69

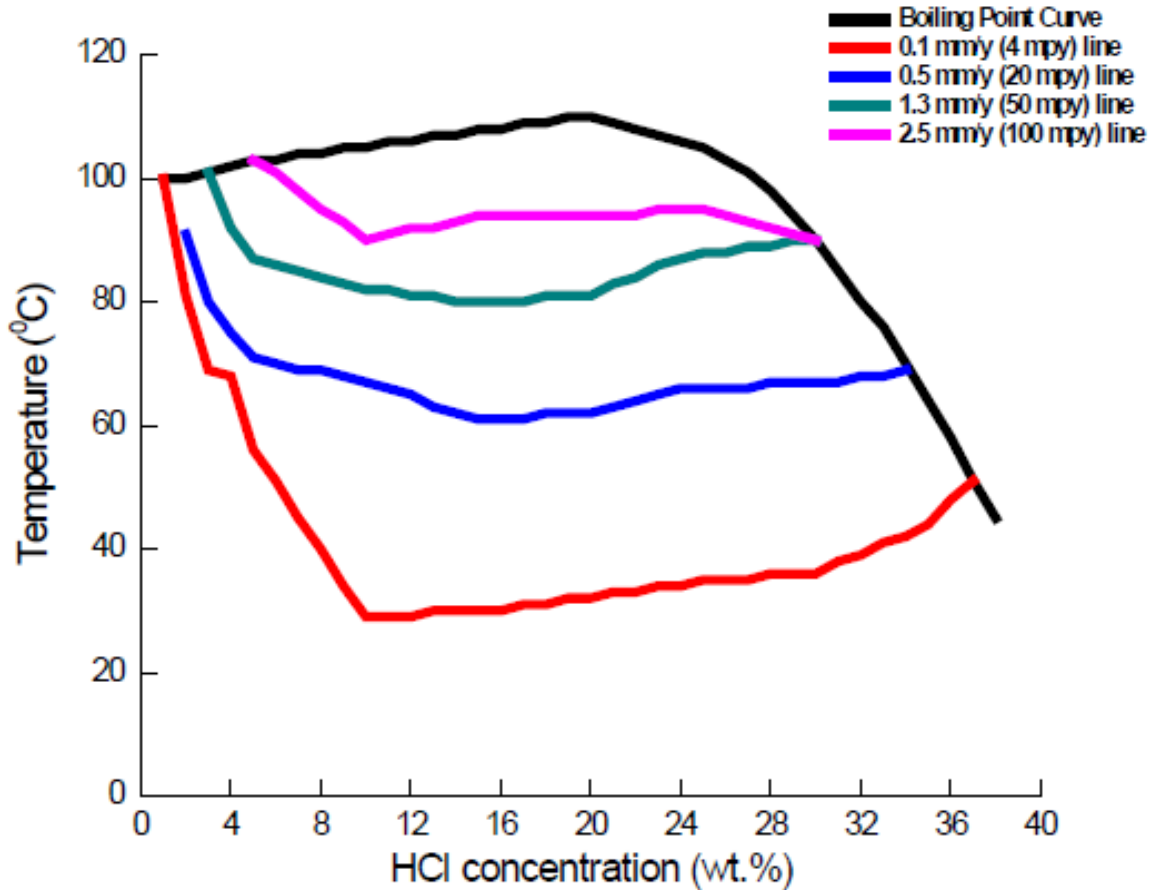
All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.

Data are from Corrosion Laboratory Job # 2-74, 23-79, 26-79, 99-81, 179-82, 318-82, 330-82, 163-84, 62-88, 168-89, 78-92, 45-94, 8-95, 11-95, 18-95, 36-95, 3-96, 9-96, 16-96, 25-96, 29-98, 37-99, 4-00, 14-02, 18-06, 55-06.

All tests were performed in reagent grade acids under laboratory conditions; field tests

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## Iso-Corrosion Diagram for C-276 Alloy in Hydrochloric Acid



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