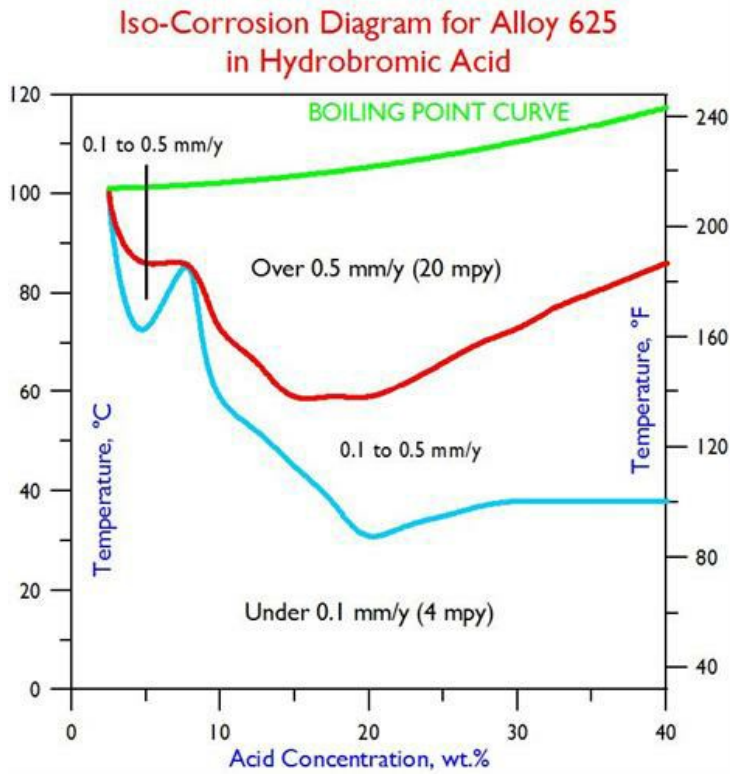
HAYNES® 625 alloy

Selected Corrosion Data

Hydrobromic 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	
2.5	-	-	-	-	<0.01	-	<0.01	-	<0.01
5	-	-	-	-	<0.01	0.13	0.60	-	-
7.5	-	-	-	-	<0.01	<0.01	0.93	-	-
10	-	-	-	-	0.15	0.82	-	-	-
15	-	-	<0.01	0.30	0.64	-	-	-	-
20	-	0.01	0.16	0.33	0.65	-	-	-	-
25	-	-	-	-	-	-	-	-	-
30	-	-	0.11	0.21	0.34	0.72	-	-	-
40	-	-	0.08	0.15	0.25	0.42	0.79	-	-

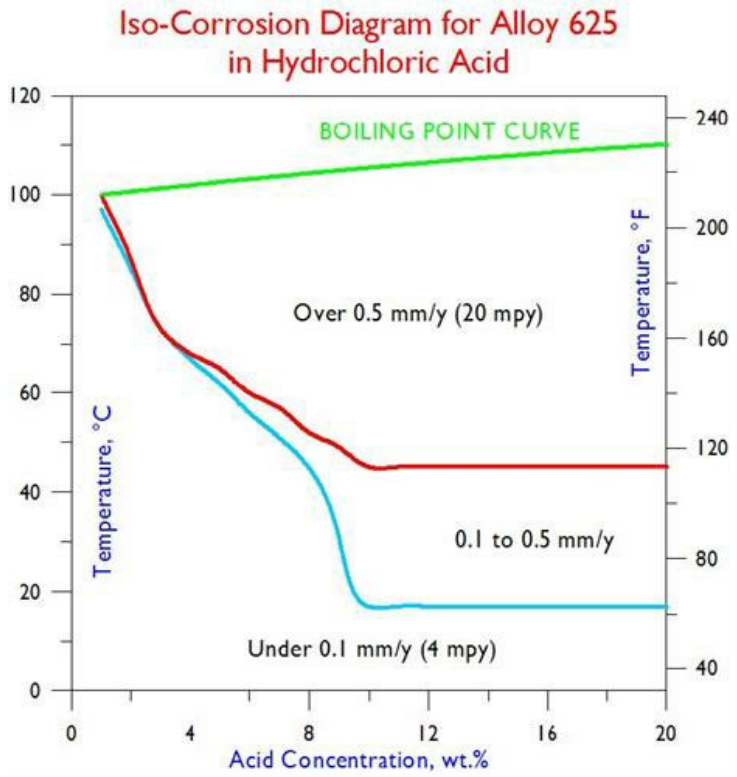
All corrosion rates are in millimeters per year (mm/y); to convert to mils (thousandths of an inch) per year, divide by 0.0254.
Data are from Corrosion Laboratory Job 17-04.
All tests were performed in reagent grade acids under laboratory conditions; field tests are encouraged prior to industrial use.



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	-	0.23
1.5	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
2.5	-	-	-	-	-	-	-	-	-
3	-	-	<0.01	<0.01	<0.01	2.07	-	-	-
3.5	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	-	<0.01	<0.01	-	4.65	-	-	-
7.5	-	-	0.07	0.49	-	-	-	-	-
10	<0.01	0.15	0.30	1.16		-	-	-	-
15	0.06	0.19	0.40	1.06		-	-	-	-
20	0.06	0.16	0.36	0.82		-	-	-	-

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 56-97 and 3-98.
All tests were performed in reagent grade acids under laboratory conditions; field tests are encouraged prior to industrial use.



Sulfuric Acid

Conc. Wt.%	75°F 24°C	100°F 38°C	125°F 52°C	150°F 66°C	175°F 79°C	200°F 93°C	225°F 107°C	250°F 121°C	275°F 135°C	300°F 149°C	350°F 177°C	Boiling
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	<0.01	0.06	-	-	-	-	-	0.40
10	-	-	-	-	0.01	0.24	-	-	-	-	-	1.05
20	-	-	-	-	0.02	0.58	-	-	-	-	-	2.84
30	-	-	-	0.01	0.03	0.68	-	-	-	-	-	-
40	-	-	<0.01	0.02	0.58	-	-	-	-	-	-	-
50	-	-	-	0.01	0.89	-	-	-	-	-	-	-
60	-	-	<0.01	0.48	0.92	-	-	-	-	-	-	-
70	-	<0.01	0.23	0.63	-	-	-	-	-	-	-	-
80	-	0.05	0.31	0.91	2.54	-	-	-	-	-	-	-
90	<0.01	0.17	1.26	-	6.97	-	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	-	-

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 57-97 and 4-98.
All tests were performed in reagent grade acids under laboratory conditions; field tests are encouraged prior to industrial use.