

HAYNES® 625 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	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	<0.01	0.06	-	-	-	-	-	0.4
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.

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Iso-Corrosion Diagram for Alloy 625 in Sulfuric Acid

