

HAYNES® 625 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	-	0.23
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	0.3	1.16	-	-	-	-	-
15	0.06	0.19	0.4	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.

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Iso-Corrosion Diagram for Alloy 625 in Hydrochloric Acid

