

HASTELLOY® C-276 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	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	0.03	0.14	-	-	-	-	-	0.18
20	-	-	-	-	0.05	0.4	-	-	-	-	-	0.49
30	-	-	-	-	0.06	0.42	-	-	-	-	-	0.83
40	-	-	-	-	0.19	0.48	1.02	-	-	-	-	1.87
50	-	-	-	0.02	0.26	0.62	1.13	2.33	-	-	-	3.64
60	-	-	-	0.02	0.3	0.67	1.03	2.87	-	-	-	13.08
70	-	-	-	0.05	0.16	0.5	1.06	13.68	-	-	-	-
80	-	-	-	0.04	0.14	0.6	2.73	5.66	-	-	-	-
90	-	-	-	0.03	0.05	0.46	1.64	4.79	-	-	-	-
96	-	-	-	-	0.04	0.18	0.95	-	-	-	-	-

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 8-95, 11-95, 18-95, 43-95, 9-96, 15-96, and 20-96.

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 C-276 Alloy in Sulfuric Acid

