

HASTELLOY® C-22® 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	-	-	-	-	-	0.01	-	-	-	-	-	0.13
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	<0.01	0.01	0.03	-	-	-	-	-	0.23
10	-	-	-	-	0.02	0.04	-	-	-	-	-	0.29
20	-	-	-	0.01	0.03	0.28	-	-	-	-	-	0.83
30	-	-	-	0.01	0.09	0.68	-	-	-	-	-	1.89
40	-	-	0.01	0.01	0.31	0.87	-	-	-	-	-	3.99
50	-	-	-	0.02	0.4	0.77	2.18	-	-	-	-	9.98
60	-	-	0.01	-	0.67	0.95	2.69	7.62	-	-	-	-
70	-	-	-	0.28	0.56	0.94	3.07	14.94	-	-	-	-
80	-	-	0.09	-	1.44	2.16	3.68	3.58	-	-	-	-
90	-	-	-	0.34	0.89	1.8	6.27	4.24	-	-	-	-
96	-	-	-	0.1	-	1.1	-	-	-	-	-	-

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 319-82, 445-82, and 19-14.

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-22 Alloy in Sulfuric Acid

