

## HASTELLOY® C-4 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	0.02	-	-	-	-	-	-	0.41
10	-	<0.01	-	0.01	0.03	0.19	-	-	-	-	-	0.43
20	-	-	-	0.01	0.05	0.38	-	-	-	-	-	0.89
30	-	<0.01	-	0.02	0.07	0.54	-	-	-	-	-	1.85
40	-	-	<0.01	0.03	0.38	0.87	-	-	-	-	-	3.63
50	-	0.02	0.01	0.03	0.63	0.99	-	-	-	-	-	9.96
60	-	-	0.03	0.15	0.67	1.24	-	-	-	-	-	-
70	-	0.04	0.06	0.14	0.46	0.94	-	-	-	-	-	-
80	-	-	0.04	0.13	1.1	2.47	-	-	-	-	-	-
90	-	0.04	0.05	0.19	0.71	2.63	-	-	-	-	-	-
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 19-73, 24-94, and 68-96.

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-4 Alloy in Sulfuric Acid

