

## HASTELLOY® C-4 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	<0.01	0.1	-	0.48
1.5	-	-	-	-	-	-	-	-	-
2	-	-	-	-	0.01	0.03	-	-	1.99
2.5	-	-	-	-	-	-	-	-	-
3	-	-	-	-	0.02	0.04	-	-	-
3.5	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-	-
5	-	-	<0.01	0.27	0.42	0.98	-	-	4.37
7.5	-	-	-	-	-	-	-	-	-
10	-	0.06	0.19	0.3	0.57	1.11	-	-	6.91
15	-	0.06	0.18	0.39	0.57	1.33	2.33	-	6.35
20	-	0.05	0.14	0.27	0.55	1.12	2.19	-	5.72

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 2-74 and 73-96.

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 Hydrochloric Acid

