

HASTELLOY® C-22® Alloy

Hydrobromic 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	
2.5	-	-	-	-	-	-	-	-	0.02
5	-	-	-	-	-	-	0.01	-	0.76
7.5	-	-	-	-	-	0.01	0.45	-	-
10	-	-	-	-	-	0.01	1.5	-	-
15	-	-	-	0.01	<0.01	0.88	-	-	-
20	-	-	-	0.01	0.46	0.8	-	-	-
25	-	-	<0.01	0.2	0.29	0.58	0.97	-	-
30	-	-	0.11	0.23	0.29	0.59	1.12	-	-
40	-	-	0.07	0.13	0.21	0.34	0.66	-	-

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 15-02, 27-02, and 37-02.

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 Hydrobromic Acid

