

HASTELLOY® C-22® Alloy

Nitric 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	
10	-	-	-	-	<0.01	-	0.01	-	0.01
20	-	-	-	-	0.01	-	0.02	-	0.06
30	-	-	-	-	0.01	-	0.02	-	0.13
40	-	-	-	-	0.02	0.03	0.09	-	0.26
50	-	-	-	-	-	0.05	0.14	0.33	0.59
60	-	-	-	-	0.06	0.08	0.19	0.57	1.09
70	-	-	-	-	0.05	0.11	0.33	0.71	2.53

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 443-82 and 47-04.

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 Nitric Acid

