

HASTELLOY® C-276 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	-	0.03	-	0.06	-	0.26
20	-	-	-	-	0.09	-	0.16	-	0.66
30	-	-	0.02	-	0.14	0.17	0.41	-	1.52
40	-	-	-	0.05	0.2	0.38	0.88	-	4.42
50	-	-	0.04	0.07	0.3	0.65	1.51	-	-
60	-	-	0.06	0.1	0.42	0.82	2.03	-	18.42
65	-	-	-	-	0.41	-	2.53	-	22.12
70	-	-	0.06	-	0.46	1.12	2.62	-	-

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 1-74 and 19-97.

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-276 Alloy in Nitric Acid

